Bioinformatics approaches for improved recombinant protein production in *Escherichia coli*: Protein solubility prediction

**Supplementary Material**

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## Independent Test Dataset

This section contains the protein sequences of 2000 instances used in the preliminary comparative analysis of the prediction performance of different tools. Protein sequences in FASTA format and the predicted outputs from respective prediction tools as obtained between 13th and 27th May 2013 were tabulated in Tables S1 and S2, for both soluble and insoluble protein datasets, respectively. In Tables S1 and S2, the notations “S” and “In” denote soluble and insoluble, respectively.

Table S1: Protein sequences in FASTA format and the corresponding prediction outputs for the soluble dataset using different prediction tools.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SEQUENCE | PROSOII | CCSOL (% probability of being soluble) | SOLpro | | PROSO | | Recombinant Protein Solubility Prediction | |
| Probability | Solubility | Probability | Solubility | (CV-CV') | Solubility |
| >gi|83300587|sp|P15999.2|ATPA\_RAT RecName: Full=ATP synthase subunit alpha, mitochondrial; Flags: Precursor | | | | | | | | |
| MLSVRIAAAVARALPRRAGLVSKNALGSSFVGTRNLHASNTRLQKTGTAEMSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVFGNDKLIKEGDIVKRTGAIVDVPVGDELLGRVVDALGNAIDGKGPVGSKIRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQTGKTSIAIDTIINQKRFNDGTDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYFRDNGKHALIIYDDLSKQAVAYRQMSLLLRRPPGREAYPGDVFYLHSRLLERAAKMNDSFGGGSLTALPVIETQAGDVSAYIPTNVISITDGQIFLETELFYKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAAFAQFGSDLDAATQQLLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFESAFLSHVVSQHQSLLGNIRSDGKISEQSDAKLKEIVTNFLAGFEP | 0.392 | 43 | 0.515249 | S | 0.611 | In | 1.48 | In |
| >gi|30698009|ref|NP\_201242.2| beta-ureidopropionase [Arabidopsis thaliana] |  |  |  |  |  |  |  |  |
| MDHMISENGETSAEGSICGYDSLHQLLSANLKPELYQEVNRLLLGRNCGRSLEQIVLPESAKALSSKHDFDLQAASFSADKEQMRNPRVVRVGLIQNSIALPTTAPFSDQTRGIFDKLKPIIDAAGVAGVNILCLQEAWTMPFAFCTRERRWCEFAEPVDGESTKFLQELAKKYNMVIVSPILERDIDHGEVLWNTAVIIGNNGNIIGKHRKNHIPRVGDFNESTYYMEGDTGHPVFETVFGKIAVNICYGRHHPLNWLAFGLNGAEIVFNPSATVGELSEPMWPIEARNAAIANSYFVGSINRVGTEVFPNPFTSGDGKPQHNDFGHFYGSSHFSAPDASCTPSLSRYKDGLLISDMDLNLCRQYKDKWGFRMTARYEVYADLLAKYIKPDFKPQVVSDPLLHKNST | 0.317 | 45 | 0.7837 | In | 0.591 | S | 0.91 | In |
| >gi|123053|sp|P22315.2|HEMH\_MOUSE RecName: Full=Ferrochelatase, mitochondrial; AltName: Full=Heme synthase; AltName: Full=Protoheme ferro-lyase; Flags: Precursor |  |  |  |  |  |  |  |  |
| MLSASANMAAALRAAGALLREPLVHGSSRACQPWRCQSGAAVAATTEKVHHAKTTKPQAQPERRKPKTGILMLNMGGPETLGEVQDFLQRLFLDRDLMTLPIQNKLAPFIAKRRTPKIQERRIGGGSPIKMWTSKQGEGMVKLLDELSPATAPHKYYIGFRYVHPLTEEAIEEMERDGLERAIAFTQYPQYSCSTTGSSLNAIYRYYNEVGQKPTMKWSTIDRWPTHPLLIQCFADHILKELNHFPEEKRSEVVILFSAHSLPMSVVNRGDPYPQEVGATVHKVMEKLGYPNPYRLVWQSKVGPVPWLGPQTDEAIKGLCERGRKNILLVPIAFTSDHIETLYELDIEYSQVLAQKCGAENIRRAESLNGNPLFSKALADLVHSHIQSNKLCSTQLSLNCPLCVNPVCRKTKSFFTSQQL | 0.525 | 57 | 0.664305 | In | 0.575 | In | 1.78 | In |
| >gi|461595|sp|P31853.2|ATPX\_SPIOL RecName: Full=ATP synthase subunit b', chloroplastic; AltName: Full=ATP synthase F(0) sector subunit b'; AltName: Full=ATPase subunit II; Flags: Precursor |  |  |  |  |  |  |  |  |
| MANMLVASSSKTLPTTTTTTITPKPKFPLLKTPLLKLSPPQLPPLKHLNLSVLKSAAITATPLTLSFLLPYPSLAEEIEKASLFDFNLTLPIIMAEFLFLMFALDKIYYTPLGDFMDKRDASIKEQLSGVKDTSSEVKQLEEQANAVMRAARAEISAALNKMKKETQLEVEAKLAEGRKKIEVELQEALGSLEQQKEDTIKSLDSQISALSDDIVKKVLPVS | 0.331 | 96 | 0.805266 | S | 0.531 | S | 0.33 | In |
| >gi|806312|gb|AAA66289.1| triosephosphate isomerase, chloroplast isozyme [Spinacia oleracea] |  |  |  |  |  |  |  |  |
| MAVVSTSLASQITNPNSAVSTQFSGLRRSFLKLENSVSTQSSFFQNVDSHLRLSSSSRRCPRGVVAMAGSGKFFVGGNWKCNGTKESITKLVSDLNSATLEADVDVVVAPPFVYIDQVKSSLTGRVEISAQNCWIGKGGAFTGEISVEQLKDLGCQWVILGHSERRHVIGEQNEFIGKKAAYALNQGVGVIACIGELLEEREAGKTFDVCYQQLKAFADALPSWDNVVVAYEPVWAIGTGKVASPDQAQEVHVAVRDWLKKNVSEEVASKTRIIYGGSVNGGNCAELAKQEDIDGFLVGGASLKGPEFATIVNSVTAKKVAA | 0.666 | 74 | 0.862028 | S | 0.542 | S | 1.38 | In |
| >gi|2392818|gb|AAC45645.1| NADPH-flavin oxidoreductase [Streptomyces viridifaciens] |  |  |  |  |  |  |  |  |
| MTPSAAATGHEAADEQRLRELRGLTRQLPTGVAVVTAQDGEVAHGATVSTVSVLSQQPLRIGVSLRRGSYLTGLIRQRRVFALNVLSSRQSAVADWFANPERPRGWRQFDYVRWTAHPKAGMPVLEDALAQLHCRLTDLIPLGASDDLLVAEVLDGRGRNGRPLVNFNGRLHDVEFRGVVRVSRDQPSAVTSLE | 0.349 | 50 | 0.69287 | In | 0.631 | In | 1.51 | In |
| >gi|6016135|sp|O31616.1|GLOX\_BACSU RecName: Full=Glycine oxidase; Short=GO |  |  |  |  |  |  |  |  |
| MKRHYEAVVIGGGIIGSAIAYYLAKENKNTALFESGTMGGRTTSAAAGMLGAHAECEERDAFFDFAMHSQRLYKGLGEELYALSGVDIRQHNGGMFKLAFSEEDVLQLRQMDDLDSVSWYSKEEVLEKEPYASGDIFGASFIQDDVHVEPYFVCKAYVKAAKMLGAEIFEHTPVLHVERDGEALFIKTPSGDVWANHVVVASGVWSGMFFKQLGLNNAFLPVKGECLSVWNDDIPLTKTLYHDHCYIVPRKSGRLVVGATMKPGDWSETPDLGGLESVMKKAKTMLPAIQNMKVDRFWAGLRPGTKDGKPYIGRHPEDSRILFAAGHFRNGILLAPATGALISDLIMNKEVNQDWLHAFRIDRKEAVQI | 0.505 | 64 | 0.604645 | In | 0.551 | S | 0.11 | In |
| >gi|15777939|dbj|BAB68505.1| O-acetyl-L-homoserine sulfhydrylase [Thermus thermophilus HB8] |  |  |  |  |  |  |  |  |
| MRFETLQLHAGYEPEPTTLSRQVPIYPTTSYVFKSPEHAANLFALKEFGNIYSRIMNPTVDVLEKRLAALEGGKAALATASGHAAQFLALTTLAQAGDNIVSTPNLYGGTFNQFKVTLKRLGIEVRFTSREERPEEFLALTDEKTRAWWVESIGNPALNIPDLEALAQAAREKGVALIVDNTFGMGGYLLRPLAWGAALVTHSLTKWVGGHGAVIAGAIVDGGNFPWEGGRYPLLTEPQPGYHGLRLTEAFGELAFIVKARVDGLRDQGQALGPFEAWVVLLGMETLSLRAERHVENTLHLAHWLLEQPQVAWVNYPGLPHHPHHDRAQKYFKGKPGAVLTFGLKGGYEAAKRFISRLKLISHLANVGDTRTLAIHPASTTHSQLSPEEQAQAGVSPEMVRLSVGLEHVEDLKAELKEALA | 0.565 | 40 | 0.977751 | S | 0.687 | S | 0.53 | In |
| >gi|4138535|emb|CAA06715.1| DNA gyrase subunit A [Streptococcus pneumoniae] |  |  |  |  |  |  |  |  |
| MQDKNLVNVNLTKEMKASFIDYAMSVIVARALPDVRDGLKPVHRRILYGMNELGVTPDKPHKKSARITGDVMGKYHPHGDSSIYEAMVRMAQWWSYRYMLVDGHGNFGSMDGDSAAAQRYTEARMSKIALEMLRDINKNTVDFVDNYDANEREPLVLPARFPNLLVNGATGIAVGMATNIPPHNLGETIDAVKLVMDNPEVTTKDLMEVLPGPDFPTGALVMGKSGIHKAYETGKGSIVLRSRTEIETTKTGRERIVVTEFPYMVNKTKVHEHIVRLVQEKRIEGITAVRDESNREGVRFVIEVKRDASANVILNNLFKMTQMQTNFGFNMLAIQNGIPKILSLRQILDAYIEHQKEVVVRRTRFDKEKAEARAHILEGLLIALDHIDEVIRIIRASETDAEAQAELMSKFKLSERQSQAILDMRLRRLTGLERDKIQSEYDDLLALIADLADILAKPERVSQIIKDELDEVKRKFSDKRRTELMVGQILSLEDEDLIEESDVLITLSNRGYIKRLDQDEFTAQKRGGRGVQGTGVKDDDFVRELVSTSTHDHLLFFTNKGRVYRLKGYEIPEYGRTAKGLPVVNLLKLDEDESIQTVINVESDRSDDAYLFFTTRHGIVKRTSVKEFANIRQNGLKALNLKDEDELINVLLTEGDMDIIIGTKFGYAVRFNQSAVRGMSRIATGVKGVNLREGDTVVGASLITDQDEVLIITEKGYGKRTVATEYPTKGRGGKGMQTAKITEKNGLLAGLMTVQGDEDLMIITDTGVMIRTNLANISQTGRATMGVKVMRLDQDAQIVTFTTVAVAEKEEVGTENETEGEA | 0.471 | 67 | 0.567927 | S | 0.534 | In | -0.16 | S |
| >gi|348008|gb|AAA99492.1| carboxylic ester hydrolase [Arthrobacter globiformis] |  |  |  |  |  |  |  |  |
| MDAQTIAPGFESVAELFGRFLSEDREYSAQLAAYHRGVKVLDISGGPHRRPDSVTGVFSCSKGVSGLVIALLVQDGFLDLDAEVVKYWPEFGAEGKATITVAQLLSHQAGLLGVEGGLTLAEYNNSELAAAKLAQMRPLWKPGTAFGYHALTIGVFMEELCRRITGSTLQEIYEQRIRSVTGAHFFLGLPESEEPRYATLRWAADPSQPWIDPASHFGLSANSAVGDILDLPNLREVRAAGLSSAAGVASAEGMARVYAAALTGLAANGDRAAVAPLLSEETIQTVTAEQVFGIDRVFGETSCFGTVFMKSHARSPYGSYRAFGHDGASASLGFADPVYELAFGYVPQQAEPGGAGCRNLELSAAVRKAVTELAQ | 0.626 | 27 | 0.570015 | S | 0.603 | S | 0.08 | In |
| >gi|1377927|gb|AAB66502.1| homoprotocatechuate 2,3-dioxygenase [Brevibacterium fuscum] |  |  |  |  |  |  |  |  |
| MSNEIPKPVAPAPDILRCAYAELVVTDLAKSRNFYVDVLGLHVSYEDENQIYLRSFEEFIHHNLVLTKGPVAALKAMAFRVRTPEDVDKAEAYYQELGCRTERRKDGFVKGIGDALRVEDPLGFPYEFFFETTHVERLHMRYDLYSAGELVRLDHFNQVTPDVPRGRKYLEDLGFRVTEDIQDDEGTTYAAWMHRKGTVHDTALTGGNGPRLHHVAFSTHEKHNIIQICDKMGALRISDRIERGPGRHGVSNAFYLYILDPDNHRIEIYTQDYYTGDPDNPTITWNVHDNQRRDWWGNPVVPSWYTEASKVLDLDGNVQEIIERTDDSELEVTIGADGFSFTRAGDEDGSYHGQASKGFKLGNQL | 0.424 | 44 | 0.645658 | S | 0.64 | S | -1.05 | S |
| >gi|9501755|dbj|BAB03311.1| multidrug resistant protein [Sphingomonas sp.] |  |  |  |  |  |  |  |  |
| MRRLPPIFALLAMSLMAHVTMSGGRVSASLFALQHNDSNFMAGLAYGMYSLLPALASIHIGRWVDRAGPRRVMNTSLVVMMCGLALPAMWPNLPTVLISAMFGGFGFSSYLLAANVAVSFMPVQHSSERVGMLAWLQIGTSISAVFGPSIAGALIDHAGYRAVFAFMAVTVGIGFVLSRRIELYEGGERAKKHASVAAVLGEVASTPALLRIYLIALALSLAWDGFSFMAPVLGHERGYTASQVGIVLSTFACGTLVTRAALPWLSRRLPEWRMLSVACAVTATVFLVLPIAQSVFLHAALGFVYGLSAGVGQPNILNLIYHSMPPEKAGQGVGLRSMIGGISGLGGPWLFGIIASMLSAAPVFLLIGCVMGSASWQAHRAASATKD | 0.187 | 5 | 0.513793 | S | 0.919 | In | 2.31 | In |
| >gi|498820|emb|CAA82319.1| xylanase T-6 [Geobacillus stearothermophilus] |  |  |  |  |  |  |  |  |
| MRNVVRKPLTIGLALTLLLPMGMTATSAKNADSYAKKPHISALNAPQLDQRYKNEFTIGAAVEPYQLQNEKDVQMLKRHFNSIVAENVMKPISIQPEEGKFNFEQADRIVKFAKANGMDIRFHTLVWHSQVPQWFFLDKEGKPMVNETDPVKREQNKQLLLKRLETHIKTIVERYKDDIKYWDVVNEVVGDDGKLRNSPWYQIAGIDYIKVAFQAARKYGGDNIKLYMNDYNTEVEPKRTALYNLVKQLKEEGVPIDGIGHQSHIQIGWPSEAEIEKTINMFAALGLDNQITELDVSMYGWPPRAYPTYDAIPKQKFLDQAARYDRLFKLYEKLSDKISNVTFWGIADNHTWLDSRADVYYDANGNVVVDPNAPYAKVEKGKGKDAPFVFGPDYKVKPAYWAIIDHK | 0.616 | 72 | 0.613792 | S | 0.583 | S | 0.66 | In |
| >gi|18312716|ref|NP\_559383.1| nucleoside diphosphate kinase [Pyrobaculum aerophilum str. IM2] |  |  |  |  |  |  |  |  |
| MHAINIAFFALIMPVEKTLLILKPDAVARGLVGEIISRFEKAGLKIVALKMVKASPEEIERFYPSSEEWLRSAGQKLLKAYQELGIDPRAKIGTDDPVEVGRIIKRSLVKYMTSGPIVVMVLKGNRAVEIVRKLVGPTSPHSAPPGTIRGDYSIDSPDLAAEEGRVVFNLVHASDSPSEAEREIRFWFREEEVLE | 0.651 | 90 | 0.597135 | S | 0.837 | S | 0.65 | In |
| >gi|68067963|sp|P08980.2|UCRIA\_SPIOL RecName: Full=Cytochrome b6-f complex iron-sulfur subunit, chloroplastic; AltName: Full=Plastohydroquinone:plastocyanin oxidoreductase iron-sulfur protein; AltName: Full=Rieske iron-sulfur protein; Short=ISP; Short=RISP; Flags: Precursor |  |  |  |  |  |  |  |  |
| MASFTLSSATPSQLCSSKNGMFAPSLALAKAGRVNVLISKERIRGMKLTCQATSIPADNVPDMQKRETLNLLLLGALSLPTGYMLLPYASFFVPPGGGAGTGGTIAKDALGNDVIAAEWLKTHAPGDRTLTQGLKGDPTYLVVESDKTLATFGINAVCTHLGCVVPFNAAENKFICPCHGSQYNNQGRVVRGPAPLSLALAHCDVDDGKVVFVPWTETDFRTGEAPWWSA | 0.499 | 73 | 0.696109 | In | 0.55 | In | 1.76 | In |
| >FOP\_FL|PROSO |  |  |  |  |  |  |  |  |
| MAHHHHHHVDDDDKMAATAAAVVAEEDTELRDLLVQTLENSGVLNRIKAELRAAVFLALEEQEKVENKTPLVNESLKKFLNTKDGRLVASLVAEFLQFFNLDFTLAVFQPETSTLQGLEGRENLARDLGIIEAEGTVGGPLLLEVIRRCQQKEKGPTTGEGALDLSDVHSPPKSPEGKTSAQTTPSKIPRYKGQGKKKTSGQKAGDKKANDEANQSDTSVSLSEPKSKSSLHLLSHETKIGSFLSNRTLDGKDKAGLCPDEDDMEGDSFFDDPIPKPEKTYGLRKEPRKQAGSLASLSDAPPLKSGLSSLAGAPSLKDSESKRGNTVLKDLKLISDKIGSLGLGTGEDDDYVDDFNSTSHRSEKSEISIGEEIEEDLSVEIDDINTSDKLDDLTQDLTVSQLSDVADYLEDVA | 0.636 | 99 | 0.823128 | S | 0.567 | S | -0.79 | S |
| >CAP350\_2|PROSO |  |  |  |  |  |  |  |  |
| MAHHHHHHVDDDDKMGLDIESTSKRVYKQAVFDLTKEIFEEIFAEDPNLNQPVWMKPCRINSSYFRRVKNPNNLDEIKSFIASEVLKLFSLKKEPNHKTDWQKMMKFGRKKRDRVDHILVQELHEEEAQWVNYDEDELCVKMQLADGIFETLIKDTIDVLNQISEKQGRMLLV | 0.419 | 99 | 0.779931 | In | 0.55 | S | -1.3 | S |
| >0c48c042c0062f498798ce4a0187df1cf526c88a |  |  |  |  |  |  |  |  |
| MSLKHFTAIDTHTIHETTIIEKEYVDTHHVENFVENFAKVYYSWEQSDKSIDNRMESLKGYLTDELQALNVDTVRKDIPVSSSVRGFQIWTVEPTGDNEFNVTYSVDQLITEGENTKTVHSAYIVSVYVDGSGNMVLVKNPTITNIPKKSSYKPKAIESEGTVDSITTNEINEFLTTFFKLYPTATASELSYYVNDGILKPIGKEYIFQELVNPIHNRKDNQVTVSLTVEYIDQQTKATQVSQFDLVLEKNGSNWKIVKEGHHHHHH | 0.687 | 88 | 0.818305 | In | 0.664 | In | -0.68 | S |
| >cd4da74be1c838d2850ad85472eab8b8ff8d1c94 |  |  |  |  |  |  |  |  |
| VITMDCLREVGDDLLVNIEVSPASGKFGIPSYNEWRKRIEVKIHSPPQKGKANREIIKEFSETFGRDVEIVSGQKSRQKTIRIQGMGRDLFLKLVSEKFGLEIP | 0.635 | 93 | 0.992662 | S | 0.748 | S | 1.97 | In |
| >608faa9865014148f082826963cf9328f8734b47 |  |  |  |  |  |  |  |  |
| MSEHSIRGSIVYEGLTWITAMGYNVTDFLVNMLEQMKCPENWSGLHPVDPLACVWLLYFGPKSRCSEIACVSELFIGKKGPILLPPHMYRGDTSVNSFAHHLCQYVKHLYADYEPEILSCPLDITRVKGCLSDLRQVAESCVFLSQRCLLCHLYKQNAAVSKNILTASDCIILGGSGKSLLGTYMKSYKDPATHDSILLPTYNLEAIVNYILEHYGHETAMAGDPLEHHHHHH | 0.494 | 75 | 0.721048 | In | 0.579 | In | 0.22 | In |
| >783ec7213eec8681078b28c4611589aa1052d046 |  |  |  |  |  |  |  |  |
| SKDHTEFMVHLNNRIILRRWSIFKEFLHSEELKNTPASVEAELAVTAILEKLNQQIPPRPFQTHSSTTSAKQSTATIHNPQRTYCVGDQLNVLLVAKDYFGNRKEYGGDFLRARIFSPAMKAGTSGKVTDFNNGTYLVSFTLFWEGPVSLSILLMHPSEGVSALWRARNRGYGKIIFTGQFLNGTSPVLTECGLTLNTSAELCQYLDARDHEAFYCLKLPGVPCEALTHMTSKNSNISYLSLEEKLLFRRFNIGVEVVKNLSIVVSLCNNKTNKKKKKCQIGMETPSPGGYTLKGRWITAHCEQNEFRAIKDINNCLTRKLIYLMGDSTLRQWIYYLPKVVKTLKYFDRHGAGPFKTHILLDTERHIFVQWKKHSHPFVTNKLFSMKDDNYIPREIDQVAGDSGTAIVISFGQHFRPFPINVFIRRAINVKNAIERLFLRSPETKVIIKTENIREINEHVEIFSDFHGSIQNLIIRDIFRDLNVGIIDAWDMTVAYRSEDVHPPESVIESQIGMFLNYIC | 0.567 | 25 | 0.76531 | In | 0.957 | In | 1.59 | In |
| >5be5f903d29fd0b8fe8e40eaf241df0f4b3531d7 |  |  |  |  |  |  |  |  |
| MEDYEENYKDKLKKQYDAKTHIVLSHVLKGLTDRRVIVPGEYKSKYDQCAVSCSFKANEGYLYPLDNAFFFLTKPTLYIPFSDVSM | 0.809 | 94 | 0.659799 | In | 0.621 | In | 0.27 | In |
| >ec48a0d6d84e90043ae195055e89b249d4e45a9a |  |  |  |  |  |  |  |  |
| MAHHHHHHAALRQPQVAELLAEARRAFREEFGAEPELAVSAPGRVNLIGEHTDYNQGLVLPMALELMTVLVGSPRKDGLVSLLTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGVIQYYPAAPLPGFSAVVVSSVPLGGGLSSSASLEVATYTFLQQLCPDSGTIAARAQVCQQAEHSFAGMPCGIMDQFISLMGQKGHALLIDCRSLETSLVPLSDPKLAVLITNSNVRHSLASSEYPVRRRQCEEVARALGKESLREVQLEELEAARDLVSKEGFRRARHVVGEIRRTAQAAAALRRGDYRAFGRLMVESHRSLRDDYEVSCPELDQLVEAALAVPGVYGSRMTGGGFGGCTVTLLEASAAPHAMRHIQEHYGGTATFYLSQAADGAKVLCL | 0.51 | 33 | 0.664808 | In | 0.805 | In | 0.51 | In |
| >41307863474900a8b53e59813e3012e3f12a801b |  |  |  |  |  |  |  |  |
| SVHFCGLLTLHREPVPLKSISVSVNIYEFVAGVSATLNYENEEKVPLEAFFVFPMDEDSAVYSFEALVDGKKIVAELQDKMKARTNYEKAISQGHQAFLLEGDSSSRDVFSCNVGNLQPGSKAAVTLKYVQELPLEADGALRFVLPAVLNPRYQFSGSSKDSCLNVKTPIVPVEDLPYTLSMVATIDSQHGIEKVQSNCPLSPTEYLGEDKTSAQVSLAAGHKFDRDVELLIYYNEVHTPSVVLEMGMPNMKPGHLMGDPSAMVSFYPNIPEDQPSNTCGEFIFLMDRSGSMQSPMSSQDTSQLRIQAAKETLILLLKSLPIGCYFNIYGFGSSYEACFPESVKYTQQTMEEALGRVKLMQADLGGTEILAPLQNIYRGPSIPGHPLQLFVFTDGEVTDTFSVIKEVRINRQKHR | 0.721 | 80 | 0.594226 | S | 0.572 | S | 0.28 | In |
| >e23311a41d46d39567419fa820b1a7718a6d98c1 |  |  |  |  |  |  |  |  |
| MVIIKLNANKNMPVLAVEKPQEIHKEELSDHHQSNGFTSLDLEMIELENFVLHCPLPEENLAG | 0.14 | 100 | 0.668092 | In | 0.766 | S | -2.21 | S |
| >0bcd111ed4baed99a67e44c2ed41350a62a6868b |  |  |  |  |  |  |  |  |
| MTQMRFTEEDFNTFTIEGLDARMEVLKETVRPKLTALGEHFAPTLSALTGDEMFPHVAKHARRSVNPPADSWVAFANSKRGYKKLPHFQIGLWESHVFVWFAIIYESPIKEEYGKLLEVNQETITKNIPDSFVWSADHTKPGVHKQSEMDKEQLKTLFERLQTVKKAELLCGIQLQKEEVLNMNNQEFLQRIDDAFKQLAFLYRLTQKVTQALEHHHHHH | 0.647 | 93 | 0.715156 | S | 0.641 | S | -0.62 | S |
| >97e018037050ba8bd2d3a6628ee5e175df5cbf96 |  |  |  |  |  |  |  |  |
| MKPTLFLLAAGMGSRYGGLKQLDGLGPNGETIMDYSIYDAINAGFGKLVFVIRKDFEQDFREKIISKYEGHIPCELVFQSIDDLPEGFTCPADRTKPWGTNHAVMMGADVISEPFAVINCDDFYGRDSFQVMGKFLSALPENSKNVYSMVGFRVGNTLSESGTVSRGICSTDANNLLTSVVERTKIQRLDGEVKYIDDNGEWTATPDTTPVSMNFWGFTPDYFAYSEEFFKTFLSDPKNMENLKSEFFIPLMVDKLINDGTATVEVLDTTSKWFGVTYPEDRQSVVDKIQALVDAGEYPAKLFLEHHHHHH | 0.502 | 49 | 0.675493 | In | 0.71 | In | -0.54 | S |
| >d284ea03a2471bdd9792e6de2ec29b54ccc6b1e7 |  |  |  |  |  |  |  |  |
| MNIRMGTKGKRPLRSLTPRDKIHAIQRIHDGESKASVARDIGVPESTLRGWCKNEDKLRFMSRQSATDNLCADALGDKMDGGGGGGGGAGGGGLLGPPEKRQRLDGALPLNFSNKLKFDELAFKRSPLNGLDYSTNKNLADLGYNGLPVDYAAFNGGVKAKVFGADINRPAADPSLNAISPLSSLTHLSGLTGISQSPLAISFNELTTNLNLLAQLNPGLAAMSGLNSF | 0.252 | 97 | 0.649276 | In | 0.594 | S | 3.5 | In |
| >37c4bd381417ddea598f69be2057a4f64f4e5e36 |  |  |  |  |  |  |  |  |
| RVSHQGYSTEAEFEEPRVIDLWDLAQSANLTDKELEAFREELKHFEAKIEKHNHYQKQLEIAHEKLRHAESVGDGERVSRSREKHALLEGRTKELGYTVKKHLQDLSGRISRARHNEL | 0.815 | 86 | 0.895099 | S | 0.659 | S | -0.74 | S |
| >e545f37b2859f3c88c58cc1483deb1e5131cf4e1 |  |  |  |  |  |  |  |  |
| MKSFFSIFGDPSVTSVAIGKFDGMHLAHQRLFSYLDEGGAILTVDAQRGNLTPGEYKREFTPFPLYSIPLGKIKHLSGERFIYMLKKAFPNLTKVVVGYDFRFGKNRAFGVEELRGYFAGEVVVVPEVFHRGHSVHSEAIRELIAQGEMNLAGELLGRDYFIEGRVVRGNGLGSSALFATINLEVESFLIPLEGVYATKTKVGERCFGSVSFVGKRLSVDNLFSIETHLLGVSPHAIPKTEVARIYFLERLRENRRFAELSSLKAQISEDIGRAEQIHAKTFMECMNLQGGRDEG | 0.561 | 36 | 0.550912 | In | 0.713 | In | 1.16 | In |
| >1a23ae4b1e898930349aa7879a99ab342a603eac |  |  |  |  |  |  |  |  |
| TVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIHEKKGLTKYKSSPEKWSTASDPYSDFEKVTGRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSQTRTISKNTSTSRTHTSEVHGNAEVHASFFDIGGSVSAGFSNSNSSTVAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIYNVLPTTSLVLGKNQTLATIKAKENQLSQILAPNNYYPSKNLAPIALNAQDDFSSTPITMNYNQFLELEKTKQLRLDTDQVYGNIATYNFENGRVRVDTGSNWSEVLPQIQETTARIIFNGKDLNLVERRIAAVNPSDPLETTKPDMTLKEALKIAFGFNEPNGNLQYQGKDITEFDFNFDQQTSQNIKNQLAELNATNIYTVLDKIKLNAKMNILIRDKRFHYDRNNIAVGADESVVKEAHREVINSSTEGLLLNIDKDIRKILSGYIVEIEDTEGLKEVINDRYDMLNISSLRQDGKTFIDFKKYNDKLPLYISNPNYKVNVYAVTKENTIINPSENGDTSTNGIKKILIFSKKGYEIG | 0.398 | 44 | 0.941515 | S | 0.526 | In | 0.97 | In |
| >2299f92b7579d788c65665bbe52b05152756e726 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSAMLPNTGRLAGCTVFITGASRGIGKAIALKAAKDGANIVIAAKTAQPHPKLLGTIYTAAEEIEAVGGKALPCIVDVRDEQQISAAVEKAIKKFGGIDILVNNASAISLTNTLDTPTKRLDLMMNVNTRGTYLASKACIPYLKKSKVAHILNISPPLNLNPVWFKQHCAYTIAKYGMSMYVLGMAEEFKGEIAVNALWPKTAIHTAAMDMLGGPGIESQCRKVDIIADAAYSIFQKPKSFTGNFVIDENILKEEGIENFDVYAIKPGHPLQPDFFLDEYPEAVSKKVESTGAVPELACGRTRAPPPPPLRSGC | 0.614 | 82 | 0.576277 | S | 0.614 | In | 1.88 | In |
| >42151c36370ac00cf6ef1e8ac7a8babb5f670682 |  |  |  |  |  |  |  |  |
| MAEALFKEIDVNGDGAVSYEEVKAFVSKKRAIKNEQLLQLIFKSIDADGNGEIDQNEFAKFYGSIQ | 0.407 | 100 | 0.909362 | S | 0.58 | S | -1.35 | S |
| >2d6463116b26a0549a730182acce62558a32fa73 |  |  |  |  |  |  |  |  |
| MSLNHTDLLFAKETKHEPLLLSHRGAHPDYVLTSDEINGCSEIQLANTEPASIENTIPAIRAAYEAGAEIVEVDLQQTRDGNFVAFRDWNLDCRTNGTGPIWDYTTEELKQLDIGYGYQLEGDNTYPFRGDGVGLIPTLEEILNNFPEERLLLHIQSRSTSDGERLANILESLSTEQLQTLIVTGSHATITYINERFPSVQIMTKEEYQEFSTPTDRSGWSTFRSFDEGHHHHHH | 0.69 | 36 | 0.565041 | S | 0.745 | S | -1.82 | S |
| >0cbf3d1d82309c885886effe62d51d33eb2943a5 |  |  |  |  |  |  |  |  |
| MAHHHHHHMSAFLTPKIHLVGDVSSTMDVVREMLAASPSDTEPFAVLAESQSSGRGTTGRQWSSPRGNMYFSLCLPTTLVAAEFLPVLPLATGLACRAAIMELVEGAVVHVKWPNDIIYDGKKIGGSIAECEGEHLIVGIGINIEVAPPVPDGGRPSYAVNSIASVLGKGAVTPQLLAEAVWRNFFSAVADQGFKRPELIKQFEAAMDKSLVLHKRTPTGRDPMPLHALKLNEWGHLVVGRPDGSEEVLVAEYLF | 0.302 | 78 | 0.522926 | S | 0.898 | In | 0.58 | In |
| >d00f7ac6d6ffe716fbacc657d31ebdb45b181a69 |  |  |  |  |  |  |  |  |
| STGMSERERQVMKKLKEVVDKQRDEIRAKDRELGLKNEDVEALQQQQTRLMKINHDLRHRVTVVEAQGKALIEQKVELEADLQTKEQEMGSLRAELGKLRERLQGEHSQNGEEEPETEPVGEESISDAEKVAMDLKDPNRPRFTLQELRDVLHERNELKSKVFLLQEELAYYKSEEMEEENRIPQPPPIAHPRTSPQPESGIKRLFSFFSRDKKRLANTQRNVHIQESFGQWANTHRDDGYTEQGQEALQHL | 0.718 | 64 | 0.50733 | S | 0.661 | In | -1.01 | S |
| >a38bdcedae5c219616f70f4a58d4110ca5e756bb |  |  |  |  |  |  |  |  |
| MHPVKALKQGVKNGTMPIIARFYGIIIKMFFNEHLPPHFHALYGEYNAIFNINTLEMIEGDMPLRARKLVVEWAENHQKELEIMWETKEFKQLPGLELEHHHHHH | 0.615 | 91 | 0.699887 | S | 0.679 | S | -0.51 | S |
| >6a4ca390e618d8c43e6ce98260c0506be590dab7 |  |  |  |  |  |  |  |  |
| MRARIMLFLAALLPGITATAAVELNNHQARNMDDVRSLGVIYINHNFATESEANLALNEEADVRNAMYYHVILIREPGSNGNIHASANIYRLEHHHHHH | 0.262 | 18 | 0.926333 | S | 0.53 | S | -0.22 | S |
| >926718bb0da44b2217747ec0e520638a640583fb |  |  |  |  |  |  |  |  |
| MSLSRTQIVNWLTRCGDIFSTESEYLTGLDREIGDADHGLNMNRGFSKVVEKLPAIADKDIGFILKNTGMTLLSSVGGASGPLFGTFFIRAAQATQARQSLTLEELYQMFRDGADGVISRGKAEPGDKTMCDVWVPVVESLRQSSEQNLSVPVALEAASSIAESAAQSTITMQARKGRASYLGERSIGHQDPGATSVMFMMQMLALAAKE | 0.36 | 17 | 0.5 | S | 0.596 | S | 0.59 | In |
| >c5eb7482351bd8782df300b1c10c8cb360189a28 |  |  |  |  |  |  |  |  |
| MNNPIPSNLKSEAKKAAKILREFTEITSRNGPDKIIPAHVIAKAKGLAILSVIKAGFLVTARGGSGIVVARLPDGKWSAPSAIGIAGLGGGFEIGIEVSDLVIILNYDRAVEAFAKGGNLTLGGNLTVAVGPLGRNLEGNVALRSSAAVFTYCKSRGLFAGVSLEGSCLIERKETNRKFYCQDIRAYDILFGDTPRPAQAEDLYEILDSFTEKYENEGQRINARKAAREQRKSSAKELPPKPLSRPQQSSAPVQLNSGSQSNRNEYKLYPGLSSYHERVGNLNQPIEVTALYSFEGQQPGDLNFQAGDRITVISKTDSHFDWWEGKLRGQTGIFPANYVTMN | 0.697 | 63 | 0.636519 | S | 0.641 | S | 2.47 | In |
| >a9415ac71dcdfb90bb9bce0143e13654cf715fb9 |  |  |  |  |  |  |  |  |
| MEEPIEEKIERTVERVPTGIIDELINGGIPRGSVVLVIGDPKAGKSTFLTQFVYNQIKLGVPVIGVLVDISKYEFISNALEFGWEFTPYLDDKIILLDAYTQRLRKAPKFSFEETIVGDLSNTVNLLDAIKDTTLKILSSVKTDGVVGFISSMTPIFFETSKKEIYKFLEDLREFAHRNRQVWVLEMNSGIEEPYVETMVKAIVDGIIELRLVEEGKTLKRYLRIYGMRRTAHRLDWIEYSITSQGIKLIL | 0.483 | 68 | 0.861621 | In | 0.807 | In | -0.3 | S |
| >967304a08b1e629597a476e9c84e2fc86fd14663 |  |  |  |  |  |  |  |  |
| MSLVTYQTIKVRFQASVCYITFHRPEANNTINDTLIEECLQVLNQCETSTVTVVVLEGLPEVFCFGADFQEIYQEMKRGRKQASSQEPLYDLWMKLQTGPYVTISHVRGKVNAGGLGFVSATDIAIADQTASFSLSELLFGLYPACVLPFLIRRIGRQKAHYMTLMTKPISVQEASEWGLIDAFDAESDVLLRKHLLRLRRLNKKGIAHYKQFMSSLDHQVSRAKATALTANQDMFSDPQNQMGIIRYVETGQFPWEDQEGHHHHHH | 0.699 | 31 | 0.854206 | In | 0.703 | In | 0.01 | In |
| >d38f82abb258db7476f5ace74836818a8b5fae2e |  |  |  |  |  |  |  |  |
| MAHHHHHHMKIKVRTLQNNEEEINVDNDDTILDVKKKIGVAFPEMPYDKQKLIFSGNILKDESKAMDILKENDIVIVMACKKIFSSTKNNQTKESSSKDVIKSNEKASSLPPNCDQNNATSNAPEEGTENRSLNSAESALVTGEKLKETIDNICAMGFERETVKKAMMMAFNNPNRAIDYLTNGFPEESQVNEINAINTITGMNEMNPLNAMPDVNETNETNETNETNDNSYEREDNENAPSLPNLLNNYNSLADNSGQSVADTPDQFRSSPFFNILRDVALSNPQRIPEILEMIGRTDPSFLEFIRENQGEFIRAIQNYGNNDHVGSSENDLMEGEEFADPGNLNITDPNNENFQIPITPLNENEMESIKKLESLGFPKHLALEAFIACDKNEEMAANYLFENMNDYTSD | 0.566 | 91 | 0.788638 | In | 0.926 | In | -0.61 | S |
| >32101019f97f1e0807aa1d834c82bd228bb8e2d7 |  |  |  |  |  |  |  |  |
| GHMTGVESFMTKQDTTGKIISIDTSSLRAAGRTGWEDLVRKCIYAFFQPQGREPSYARQLFQEVMTRGTASSPSYRFILNDGTMLSAHTRCKLCYPQSPDMQPFIMGIHIIDREHSGLSPQDDTNSGMSIPR | 0.657 | 19 | 0.720405 | In | 0.589 | In | 1.72 | In |
| >5d5aa3e522cbfb879c6d3e6b902dcf1f3d02f9fb |  |  |  |  |  |  |  |  |
| KLLPAFQNAERLLLAHMMRSRDVALVVQERIGGRFNIEEHRALAAYIYAFYEEGHEADPGALISRIPGELQPLASELSLLLIADDVSEQELEDYIRHVLNRPKWLMLKVKEQEKTEAERRKDFLTAARIAKEMIEMKKMLSSS | 0.451 | 88 | 0.836012 | S | 0.689 | S | -0.95 | S |
| >f752a48c10488173a30ccb8b0d9774e525aad169 |  |  |  |  |  |  |  |  |
| MIPFKDITLADRDTITAFTMKSDRRNCDLSFSNLCSWRFLYDTQFAVIDDFLVFKFWAGEQLAYMMPVGNGDLKAVLRKLIEDADKEKHNFCMLGVCSNMRADLEAILPERFIFTEDRAYADYIYLRSDLATLKGKKFQAKRNHINRFRNTYPDYEYTPITPDRIQECLDLEAEWCKVNNCDQQEGTGNERRALIYALHNFEALGLTGGILHVNGKIVAFTFGMPINHETFGVHVEKADTSIDGAYAMINYEFANRIPEQYIYINREEDLGIEGLRKAKLSYQPVTILEKYMACLKDHPMDMVRW | 0.446 | 46 | 0.805327 | In | 0.513 | In | -0.79 | S |
| >27ea8398b88fc2428269524e5b324449f43afe32 |  |  |  |  |  |  |  |  |
| SALTLLEDWCKGMDMDPRKALLIVGIPMECSEVEIQDTVKAGLQPLCAYRVLGRMFRREDNAKAVFIELADTVNYTTLPSHIPGKGGSWEVVVKPRNPDDEFLSRLNYFLKDEGRSMTDVARALGCCSLPAESLDAEVMPQVRSPPLEPPKESMWYRKLKVFSGTASPSPGEETFEDWLEQVTEIMPIWQVSEVEKRRRLLESLRGPALSIMRVLQANNDSITVEQCLDALKQIFGDKEDFGASQFRFLQTSPKIGEKVSTFLLRLEPLLQKAVHKSPLSVRSTDMIRLKHLLARVAMTPALRGKLELLDQRGCPPNFLELMKLIRDEEEWENTEAVMKNKEKPSGRGRGASGRQARAEASVSAPQATVQARSFSDSSPQTIQGGLPPLVKRRRLLGSESTRGEDHGQATYPKAENQTPGREGPQAAGEELGNEAGAGAMSHPKPWET | 0.757 | 76 | 0.562122 | S | 0.653 | S | 0.99 | In |
| >eca57531f8d724622593253570bcb623ab4cd1ff |  |  |  |  |  |  |  |  |
| MSLTKTLLSALAALLLSTAAFAQTAPTPVHAAPTQTASSQTAPTTSTHTPKARTATPRTTAPLPTAPVNVNTATAAQLMTLPGVSNKIAAEIIKDRPYKNAAELVKKVKGIGKNNVKPMTPYLAFEGHHHHHH | 0.59 | 99 | 0.888719 | S | 0.691 | In | 0.66 | In |
| >c2d1c41f063484d09d7f85e326c5c4cd2e2d4488 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMAWEGTYERLFFLALGSSYHVPSLANNIMNFLEGARLYKKNTTYVATLIYEFIILNDASMTPDVKCFWLPVKLPHFLLLSELYSIIEKYKLAKVYYNRGTYDVHTVSANSLVISGSMPTGIIIGSSSPLDYVGVQVNRQLEMDLPIE | 0.626 | 17 | 0.894991 | In | 0.608 | In | 1.07 | In |
| >a1a8fbf6437d257d1ef9c3e027433cc1fc233fdc |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMGSSATEIEELENTTFKYLTGEQTEKMWQRLKGILRCLVKQLERGDVNVVDLKKNIEYAASVLEAVYIDETRRLLDTEDE | 0.216 | 92 | 0.823067 | S | 0.631 | S | -2.51 | S |
| >38ce6b1c9eccd4166be6d36c443e7140af5ca7e3 |  |  |  |  |  |  |  |  |
| ARVAANAPPPASHPRRPPRPGTNGWSRRGSCRASWSRDCSGVRSRRVALGMAMDQVNALCEQLVKAVTVMMDPNSTQRYRLEALKFCEEFKEKCPICVPCGLRLAEKTQVAIVRHFGLQILEHVVKFRWNGMSRLEKVYLKNSVMELIANGTLNILEEENHIKDALSRIVVEMIKREWPQHWPDMLIELDTLSKQGETQTELVMFILLRLAEDVVTFQTLPPQRRRDIQQTLTQNMERIFSFLLNTLQENVNKYQQVKTDTSQESKAQANCRVGVAALNTLAGYIDWVSMSHITAENCKLLEILCLLLNEQELQLGAAECLLIAVSRKGKLEDRKPLMVLFGDVAMHYILSAAQTADGGGLVEKHYVFLKRLCQVLCALGNQLCALLGADSDVETPSNFGKYLESFLAFTTHPSQFLRSSTQMTWGALFRHEILSRDPLLLAIIPKYLRASMTNLVKMGFPSKTDSPSCEYSRFDFDSDEDFNAFFNSSRAQQGEVMRLACRLDPKTSFQMAGEWLKYQLSTFLDAGSVNSCSAVGTGEGSLCSVFSPSFVQWEAMTLFLESVITQMFRTLNREEIPVNDGIELLQMVLNFDTKDPLILSCVLTNVSALFPFVTYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNVRRHACSSIIKMCRDYPQLVLPNFDMLYNHVKQLLSNELLLTQMEKCALMEALVLISNQFKNYERQKVFLEELMAPVASIWLSQDMHRVLSDVDAFIVYVGTDQKSCDPGLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFVVGYTSSGNPIFRNPCTEQILKLLDNLLALIRTHNTLYAPEMLAKMAEPFTKALDMLDAEKSAILGLPQPLLELNDSPVFKTVLERMQRFFSTLYENCFHILGKAGPSMQQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMLRVFVKPLVLFCPPEHYEALVSPILGPLFTYLHMRLSQKWQVINQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITVCCVSKKGADHSSAPPADGDDEEMMATEVTPSAMAELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQLCWPLLKQVLSGTLLADAVTWLFTSVLKGLQMHGQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQIPEIQKDSLDQFDCKLLNPSLQKVADKRRKDQFKRLIAGCIGKPLGEQFRKEVHIKNLPSLFKKTKPMLETEVLDNDGGGLATIFEP | 0.546 | 47 | 0.807045 | In | 0.931 | In | 0.17 | In |
| >fd4e45073c36987ed2d67f7c9d3322b9dd784273 |  |  |  |  |  |  |  |  |
| SMGRDAPAPAASQPSGCGKHNSPERKVYMDYNATTPLEPEVIQAMTKAMWEAWGNPSSPYSAGRKAKDIINAARESLAKMIGGKPQDIIFTSGGTESNNLVIHSVVKHFHANQTSKGHTGGHHSPVKGAKPHFITSSVEHDSIRLPLEHLVEEQVAAVTFVPVSKVSGQTEVDDILAAVRPTTRLVTIMLANNETGIVMPVPEISQRIKALNQERVAAGLPPILVHTDAAQALGKQRVDVEDLGVDFLTIVGHKFYGPRIGALYIRGLGEFTPLYPMLFGGGQERNFRPGTENTPMIAGLGKAAELVTQNCEAYEAHMRDVRDYLEERLEAEFGQKRIHLNSQFPGTQRLPNTCNFSIRGPRLQGHVVLAQCRVLMASVGAACHSDHGDQPSPVLLSYGVPFDVARNALRLSVGRSTTRAEVDLVVQDLKQAVAQLEDQA | 0.665 | 65 | 0.5 | S | 0.547 | S | 1.13 | In |
| >4182ed0ff22120bb6b5295f4f4003373564e367f |  |  |  |  |  |  |  |  |
| MPEGPELHLASQFVNEACRALVFGGCVEKSSVSRNPEVPFESSAYRISASARGKELRLILSPLPGAQPQQEPLALVFRFGMSGSFQLVPREELPRHAHLRFYTAPPGPRLALCFVDIRRFGRWDLGGKWQPGRGPCVLQEYQQFRESVLRNLADKAFDRPICEALLDQRFFNGIGNYLRAEILYRLKIPPFEKARSVLEALQQHRPSPELTLSQKIRTKLQNPDLLELCHSVPKEVVQLGGRGYGSESGEEDFAAFRAWLRCYGMPGMSSLQDRHGRTIWFQGDPGPLAPKGRKSRKKKSKATQLSPEDRVEDALPPSKAPSRTRRAKRDLPKRKGRQAASGHCRPRKVKADIPSLEPEGTSAS | 0.699 | 82 | 0.635371 | S | 0.609 | S | 1.63 | In |
| >7157c7edfbda02c39302fdb8da0db16bd20e6f25 |  |  |  |  |  |  |  |  |
| MAPAYTGKVERYRLEEGIVVGRKPLPQGDLLLRLVTPRGSLEAVVRKGQRPTGRTGRLSLFHHVRFQLYAKGEGLPTLTQAELLGRLHGLEAPRRFLLAAFLAELAYRLASPEAAPRIYPLLVSGLRGIAKHEDPLLPLVWAGWRVAKAGGIGPNLEGEGLRLKRGRLGEEGVYLGREGVEALKATLRLPGAQALPHLEGAPLNRLFLALKAHAEEALGPLRSAEAIGV | 0.763 | 66 | 0.996401 | S | 0.84 | S | 1.33 | In |
| >da3f7e37416bb3468a2b04e9bd5597cb62d79324 |  |  |  |  |  |  |  |  |
| MSNAEASRVYEIIVESVVNEVREDFENAGIDEQTLQDLKNIWQKKLTETKVTTFSWDNQFNEGNINGVQNDLNFNLATPGVNSSEFNIKEENTGNEGLILPNINSNNNIPHSGETNINTNTVEATNNSGATLNTNTSGNTNADVTSQPKIEVKPEIELTINNANITTVENIDDESEKKDDEEKEEDVEKTRKEKEQIEQVKLQAKKEKRSALLDTDEVGSELDDSDDDYLISEGEEDGPDENLMLCLYDKVTRTKARWKCSLKDGVVTINRNDYTFQKAQVEAEWV | 0.79 | 97 | 0.568206 | S | 0.848 | In | -2.02 | S |
| >474ddf754bbc2403c845e0afa67261cfb10f217f |  |  |  |  |  |  |  |  |
| SLTGGSSTKGKDNKYKVYLITMDQMDQHWVNVDAGCKKAVKELGNIDYEWLAPDVKDDAKQIECINNAVAGGANAILLAANGPDAVTSALKEAQSAGVKIIYVDSAADYPAIQTLATDNEAAGKTAGEEMMKGLTAAGIKEGKIGIVNVNAATASCVAREKGFRSAFEGTSFELLGTQYGEGDAAKSKDIAANYITSSCVGLFGANEGSTVGIGIAIEEAGEKIIGVGFDKSDTILELIKGGHLLCTMAQNPDVMGYEGMKTAAKALAGEKIGETNIDTGVSVITKDEG | 0.714 | 98 | 0.527025 | S | 0.635 | In | -0.24 | S |
| >8f8338806ab90935b4e2e53a2d641ecfcab760b7 |  |  |  |  |  |  |  |  |
| MVATRPIRHEALSGFALMPELGRVDIETLKLHVYPEPQLQAKWRADLGEKDRPRVGLFISNKSAQRRWSWDKWRQLALKLNAQAELLIFHDPAEQPSEQQLAGLTARCLSTPSTDDLMAAMSQLDLVISADSAPVHIGSALQIPVVALFESRPEKYLRWYPLGVRHVVVHAGPQVEDIHVDAVESAARSLLTTDLEHHHHHH | 0.328 | 55 | 0.824632 | In | 0.553 | S | -0.36 | S |
| >d51f5a2857984d239930de3f4099f4debb6d7266 |  |  |  |  |  |  |  |  |
| MQLKAAIEALIFASNGITLERLIKILEKDPEEIKRALEELKKEYEDEAHGVVLREVNGRYRFFTKPEYAGFVSKLSGRKYKNLTDTQMEVVALLLISGPIPKSEIDAFRGKDSSAVLSSLQRMGIVRKKRKGKSYLYQLSPSFVESTMLDEILKEVSQKLSSDGGES | 0.557 | 90 | 0.814348 | In | 0.643 | S | 1.26 | In |
| >76847b851a8fa872021e549bd53ebb7336ecdc96 |  |  |  |  |  |  |  |  |
| MSLTESRVKCVIFDCEGTLVDSERLCCEALVQVFGELGVALSYQQVAEHFSGGKIADILHAACQLAKITADIDLLEQRYRSIVAATFRRKLSPMGGARALLNYLKRNQIEFCVASNAPREKIAMTLTLAGLEHYFEGRIFSAFDANSWKPEPDLIRYCAMNMGFTLDECIYVDDTPKGVEAGLNAEVLTFQLSPLNPQHRSHSQQVIVLSNLLQLAEYLSGSVMRQSAEGHHHHHH | 0.546 | 47 | 0.754506 | In | 0.811 | S | -0.34 | S |
| >88c2851563d13311a8c54fb6ff53ea1ff3e670d8 |  |  |  |  |  |  |  |  |
| GMLKIGVIADDFTGATDIASFLVENGMPTVQINDVPTGTQPEGCDAVVISLKTRSCPAQEAIKQSLAALVWLKKQGCQQVYFKYCSTFDSTAEGNIGPVTDALMVALDTSFTVISPALPVNGRTVYQGYLFVMNHLLAESGMRHHPINPMTDSYLPRLMEAQAQGRCGVIPAQTLDEGVAATRAALSRLQQEGYRYAVLDALNERHLEIQGEVLRDAPLVTGGSGLAMGLARQWAKHGVSQARSAGYPLSGRAVVLSGSCSQMTNQQVAFYRQHAPTRDVDVARCLSSETREAYAEALAQWVLSQDSELAPMISATASTQALAAIQQQYGATEASHAVEALFSLLAARLAEGGITRFIVAGGETSGVVTQSLGITGFHIGPCISPGVPWVNALHAPVSLALKSGNFGDESFFIRAQREFQV | 0.577 | 21 | 0.570621 | S | 0.516 | In | 0.43 | In |
| >720eb9daee08356a9bf601453932815fcf1f261a |  |  |  |  |  |  |  |  |
| MKGFAMLGINKLGWIEKERPVAGSYDAIVRPLAVSPCTSDIHTVFEGALGDRKNMILGHEAVGEVVEVGSEVKDFKPGDRVIVPCTTPDWRSLEVQAGFQQHSNGMLAGWKFSNFKDGVFGEYFHVNDADMNLAILPKDMPLENAVMITDMMTSGFHGAELADIQMGSSVVVIGIGAVGLMGIAGAKLRGAGRIIGVGSRPICVEAAKFYGATDILNYKNGHIVDQVMKLTNGEGVDRVIMAGGGSETLSQAVSMVKPGGIISNINYHGSGDALLIPRVEWGCGMAHKTIKGGLCPGGRLMKGFAMLGINKLGWIEKERPVAGSYDAIVRPLAVSPCTSDIHTVFEGALGDRKNMILGHEAVGEVVEVGSEVKDFKPGDRVIVPCTTPDWRSLEVQAGFQQHSNGMLAGWKFSNFKDGVFGEYFHVNDADMNLAILPKDMPLENAVMITDMMTSGFHGAELADIQMGSSVVVIGIGAVGLMGIAGAKLRGAGRIIGVGSRPICVEAAKFYGATDILNYKNGHIVDQVMKLTNGEGVDRVIMAGGGSETLSQAVSMVKPGGIISNINYHGSGDALLIPRVEWGCGMAHKTIKGGLCPGGRLRAEMLRDMVVYNRVDLSKLVTHVYHGFDHIEEALLLMKDKPKDLIKAVVIL | 0.618 | 67 | 0.992425 | S | 0.625 | S | 1.12 | In |
| >1b9a8e210472aab90415015440e773ad7d7801cf |  |  |  |  |  |  |  |  |
| MSSIDKKELEKFEKISHNWWNKDGEFGILHRINPIRLEYIIEKITTHYNRHLSKLTYREELVGNMQHSTAAYALVREDASSRLTHKLPLEAEFEKMSNDISKLEILDVGCGGGLIATPLAAQGFNVTAIDALQSNIETATAYAKENGVKINYLQSTIEELDSDKLYDVVICLEVIEHVENVQQFILNLVKHIKPNGMAIISTINRTKKAYILGIIVAEYILGWVPKNTHDYSKFLKPLEIYEMLTDTKIEIKELKGLVYDPAKNEWKLSDDIDVNYFMCLGRKSMCYPS | 0.479 | 83 | 0.671713 | In | 0.6 | S | -0.32 | S |
| >65f389bb48f1696d5562a5b4f0ad70bd58595295 |  |  |  |  |  |  |  |  |
| MMRLANGIVLDKDTTFGELKFSALRREVRIQNEDGSVSDEIKERTYDLKSKGQGRMIQVSIPASVPLKEFDYNARVELINPIADTVATATYQGADVDWYIKADDIVLTKDSSSFKAQPQAKKEPTQDKLEHHHHHH | 0.655 | 92 | 0.941749 | S | 0.662 | S | -0.53 | S |
| >c7bf14e6cadb80d6a866d98045370e56e5cd8c4f |  |  |  |  |  |  |  |  |
| MSLSVLLIQPRQGEAVAAAERRDFLQATGLKPQELTSRMLDTTTSRIGSLEGFDGVIVGGSPLNATNFEYSDWQRHVHRELSLLINHPLPTIFVCYGNTFLTFFSGGQIGRTHPEDSGATTVLLTDAGKRDVLTQDLPDSFTSFTGHTENSVAPAPGHVVLATGPTCPIQMLRANKNTWSVQFHADMDAVGMKNRMDFYSNYGYFSPEDYDRIIAELPSVDSIYANRVLRNFVEVCEGIRVADGAEHQLPELNEGHHHHHH | 0.632 | 28 | 0.677729 | S | 0.814 | In | -0.11 | S |
| >319bf69a352939596c88d1ecd5dab872c183e025 |  |  |  |  |  |  |  |  |
| SNFSGFTKGTDIADLDAVAQTLKKPADDANKAVNDSIAALKDKPDNPALLADLQHSINKWSVIYNINSTIVRSMKDLMQGILQKFP | 0.854 | 96 | 0.734402 | S | 0.537 | In | 1.17 | In |
| >8d68f56d9624f696390dce175d0c1031a316d4ff |  |  |  |  |  |  |  |  |
| SNSCSTHPLREEQEKLNVWVALLNLENMYGSQESLTKVFERAVQYNEPLKVFLHLADIYTKSEKYKEAGELYNRMLKRFRQEKAVWIKYGAFVLGRSQAGASHRVLQRALECLPAKEHVDVIVKFAQLEFQLGDVERAKAIFENTLSTYPKRTDVWSVYIDMTIKHGSQTAVRDIFERVIHLSLAPKRMKFFFKRYLDYEKQHGTEKDVQAVKAKALEYVEAKSSALED | 0.711 | 88 | 0.529394 | In | 0.566 | S | 0.34 | In |
| >f32eb62cd591a70894e1cd131b9b3561b9679b29 |  |  |  |  |  |  |  |  |
| QLNNGDMEYGDGGWYLWNNPDGPAVAESQIAVQGLGVDGSQGAKVVVKELPNPWWGLQLQPPKFLADSGFYKLSFKAKGNMPINSVVQGGPPDYRQKESASFDLTDKWQTYEMIFLADQKGYGLNNITFQIGLKKGWIQLDDVEVEKMDEMSDPSWYNNADARIDSLRKVDFTVKANPGEKVHVKLLRHSFPFGTALALYDTKDSTENWYRNAAKKYFWHGVSENQFKWPEYEPKKGKIKRDEMKEYTDFTAQNHWKLRGHALMWSHQGYGFDKHYSNKGRCEEMAEKLKARIYRDLKEYKGKITEYDVWNEPIHESWTFNKCGWGILDSAFIWAHKADPSAFLYINDYNVVAAGETDRYYGLIKGMLERKVPVMGIGVQCHFGLRPVVPSLIKERLDKLASLGLPIKVTEFDVGDWQAGMNDTEEVQAEKFETFLRTAFSHPAVNGIVFWGFWDNRHWVKNGGMIASDGREKPAAKRVYDLWHKVWTTDLYATADENGEAKFRGFKGYYQVNAGDKKFQITVK | 0.712 | 62 | 0.780014 | S | 0.573 | S | 0.82 | In |
| >25bbae4eab9648d1786afe92dae80f2f90cb230b |  |  |  |  |  |  |  |  |
| SALREDDDDVNIGEKVVDVESELQKYRINSIESTVVIRQLPTQGIAFKLWIPATTLVTLLDNYRRDPNISPLNRTFSSFQFDGSDSSSPINIVELGSGTGIVGIAAAATLGANVTVTDLPNVIENLKFNADANAQVVAKFGGKVHVASLRWGEIDDVESLGQNVDLILASDVVYHVHLYEPLLKTLRFLLLEGSSERVFLMAHLKRWKKESIFFKKARRFFDVDVIHCDDPQEGARIGVVVYRFAPKNQNL | 0.604 | 61 | 0.682152 | In | 0.547 | S | 0.14 | In |
| >01c29218a936e6992e445f8ab181b08065790d7c |  |  |  |  |  |  |  |  |
| SKWVESIFLIFLLNFTESRTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIEKPTGDEQSSGCLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTPASIPLFQVPEPVTSCEAYEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACAVMKNFGTRTFQAITVTKLSQKFTKVNFTEIQKLVLDVAHVHEHCCRGDVLDCLQDGEKIMSYICSQQDTLSNKITECCKLTTLERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAKGYQELLEKCFQTENPLECQDKGEEELQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTSSELMAITRKMAATAATCCQLSEDKLLACGEGAADIIIGHLCIRHEMTPVNPGVGQCCTSSYANRRPCFSSLVVDETYVPPAFSDDKFIFHKDLCQAQGVALQTMKQEFLINLVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQEVCFAEEGQKLISKTRAALGV | 0.693 | 94 | 0.551086 | S | 0.525 | S | -0.78 | S |
| >46f94bede5084cc7569ed7a65f92c16ff60bfd55 |  |  |  |  |  |  |  |  |
| MMKNTVTEASIYEAQGLKDEALEIYKNILKEDPNNQNAIDAVRRLSGFRSKHKDLNTQMLDFFINMKSDEEINEFKRWLIKILEHHHHHH | 0.697 | 96 | 0.655444 | S | 0.545 | S | -0.68 | S |
| >5644b895b33b8177c335fa614a1c73a1cd54b0df |  |  |  |  |  |  |  |  |
| ASTLKSGSKEVENLKKPFMPPREVHVQVTHSMPPQKIEIFKSLDNWAEENILVHLKPVEKCWQPQDFLPDPASDGFDEQVRELRERAKEIPDDYFVVLVGDMITEEALPTYQTMLNTLDGVRDETGASPTSWAIWTRAWTAEENRHGDLLNKYLYLSGRVDMRQIEKTIQYLIGSGMDPRTENSPYLGFIYTSFQERADFISHGNTARQAKEHGDIKLAQICGTIAADEKRHETAYTKIVEKLFEIDPDGTVLAFADMMRKKISMPAHLMYDGRDDNLFDHFSAVAQRLGVYTAKDYADILEFLVGRWKVDKLTGLSAEGQKAQDYVCRLPPRIRRLEERAQGRAKEAPTMPFSWIFDRQVKL | 0.577 | 62 | 0.814781 | In | 0.627 | S | -0.52 | S |
| >e862c4dfdf133c623bd26f1188e78f728ead5db2 |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHMNDFKNQWLRKRTFAIPASRLTGRLTTLKSDVPAADSLFWKLWNGSLDTAVQVLQTDYFKGIAAGTLDPNAYGSLMVQDGYYCFRGRDDYATAATCAQDETLREFFKAKAKSYDEYNETYHQTWHLREASGLIPGTDIKDYADYEAYVAGSLASPYMCVVMLPCEYLWPWIANFLDGYTPTNSLYRFWIEWNGGTPNGAYQMGNMLEQYRDKIDEDKAVEIFNTAMNYELKVFTSSTILTTIENGK | 0.163 | 12 | 0.535295 | In | 0.59 | S | -0.4 | S |
| >d44811098ac81c5a7d289df201e53d7fe2d885c1 |  |  |  |  |  |  |  |  |
| MSPIELSYISDISVPKAASAPAYYDLRALNRLTSVKDQGTAGTCWAFASYSSLESYLKPGEDWDFSENNMKNLLSSAYQEGFDRDPNDGGNRIQAAAYLARWSGPVKESDDPYSTFSGVSPADLPIKKHVQDVIFIPDRADPLDNEAIKWAVQNYGAVYTTMHYNNTFYSPEYYSYYFNGTSEPNHAVAIVGWDDSYDRNNFSKVPPGNGAFIMKNSWGPEWGDKGYFYVSYYDSKAGNGSSVFTAENPLEHHHHHH | 0.662 | 38 | 0.855889 | S | 0.584 | In | 0.77 | In |
| >7774389ae0d23bedc6b3dc67d25b9fa5d1a22a16 |  |  |  |  |  |  |  |  |
| GMLVRTLSALECTKVLTANRVGRLACAKDGQPYVVPLYYAYSDAHLYAFSMPGKKIEWMRANPRVSVQVDEHGQGRGWKSVVVDGRYEELPDLIGHKLQRDHAWSVLSKHTDWWEPGALKPVTPPTADSAPHVFFRILIEQVSGREASE | 0.654 | 56 | 0.661768 | S | 0.532 | In | 1.02 | In |
| >f909b6119cbde08ab1cd79edfe06c7ae1da29c4d |  |  |  |  |  |  |  |  |
| MPRGSALSDTERAQLDVMKLLNVSLHEMSRKISRSRHCIRVYLKDPVSYGTSKRAPRRKALSVRDERNVIRAASNSCKTARDIRNELQLSASKRTILNVIKRSGVIVRQKLRPAPLLSADHKLKRLEFAKNNMGTHHHHHH | 0.385 | 91 | 0.751232 | In | 0.829 | In | -1.62 | S |
| >e036c6bf27a38c9aa27268a7a00806407fb8f0ce |  |  |  |  |  |  |  |  |
| LRIPNIATYTGTIQGKGEVCIIGNKEGKTRGGELYAVLHSTNVNADMTLILLRNVGGNGWGEIKRNDIDKPLKYEDYYTSGLSWIWKIKNNSSETSNYSLDATVHDDKEDSDVLTKCPV | 0.747 | 40 | 0.71987 | S | 0.665 | S | 1.19 | In |
| >dbe214a3c4bad8f8d2393a74ac37cb5b58ecd3b0 |  |  |  |  |  |  |  |  |
| MNIHRSTPITIARYGRSRNKTQDFEELSSIRSAEPSQSFSPNLGSPSPPETPNLSHCVSCIGKYLLLEPLEGDHVFRAVHLHSGEELVCKVFDISCYQESLAPCFCLSAHSNINQITEIILGETKAYVFFERSYGDMHSFVRTCKKLREEEAARLFYQIASAVAHCHDGGLVLRDLKLRKFIFKDEERTRVKLESLEDAYILRGDDDSLSDKHGCPAYVSPEILNTSGSYSGKAADVWSLGVMLYTMLVGRYPFHDIEPSSLFSKIRRGQFNIPETLSPKAKCLIRSILRREPSERLTSQEILDHPWFSTDFSVSNSAYGAKEVSDQLVPDVNMEENLDPFFN | 0.424 | 71 | 0.565201 | In | 0.866 | In | 0.59 | In |
| >758f60750eae75d48af3ab28e4016b3660296dd0 |  |  |  |  |  |  |  |  |
| MFKNILLPYDFENDFSAIPDYLEKVTDEDSVVVIYHVVTENDLAISVKYYNKHKEDIIREKEKKLTPFLRELEKRDIQYKIDVDFGHIKDTILEKITSGDINNGEFDLVIMSNHRVDLNIKHVLGDVTHKIAKRSSVPVLIVK | 0.75 | 100 | 0.551592 | S | 0.651 | S | -1.15 | S |
| >99e32aa130130d799ca29ce08740ae9a417b9880 |  |  |  |  |  |  |  |  |
| GSHMTTPSHLSDRYELGEILGFGGMSEVHLARDLRDHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNHPAIVAVYDTGEAETPAGPLPYIVMEYVDGVTLRDIVHTEGPMTPKRAIEVIADACQALNFSHQNGIIHRDVKPANIMISATNAVKVMDFGIARAIADSGNSVTQTAAVIGTAQYLSPEQARGDSVDARSDVYSLGCVLYEVLTGEPPFTGDSPDSVAYQHVREDPIPPSARHEGLSADLDAVVLKALAKNPENRYQTAAEMRADLVRVHNGEPPEAPKVLTDAERTSLLSSAAGNLSGPR | 0.672 | 65 | 0.534219 | In | 0.595 | In | -0.16 | S |
| >337224caccfdf8c243cd4f27f1d5f34242e84e4a |  |  |  |  |  |  |  |  |
| MSLDNNESASVEAVRNAKAEQLMSIANLNNANADAKKAVSAAEVALKEAEAAYKKAQAEAEQAEADQQKLLLEKAQATLEMEIEALKLQAEANLNFAKAQLEQAKADLIAALDRVDQAEKTRIKDLLSKVEDLLDDINADRSSLVIAKNDLAKLNAGLVTAEEVRKQTIAAQEEIKATAQALITEYEKYSQEDKANAETAAKEANSKKIALEKIREEKNTALSIANDDYSTASRNAFYCHFVQALQAMGNDYYIVESVNSEGVSYTNDDATTGQVWKSGYQKYVANVDLIQEEVKSYSRGLAVAEKKLVDAKSELTKAKETDTYKNYAKAVTDAQKKYDEAQTGTEKEQALYELQAAEQTLKSYIQPYESGITSAEEEIENKTESLAKWNEYMDVVTGDDSKAYETLIKSLATAIDNQLDANIAYGKANHNYTVQSQLTSALENVANGLSDYVELIQAQKIVIARADEVIADASTIVTKEQAIANKEKEIAQLENSLSVNEPIYADYLAQIKALVESAEGHHHHHH | 0.647 | 99 | 0.985381 | S | 0.627 | In | -2.1 | S |
| >d2aec6b4643dc5c1778c6ca4262cc64af740f413 |  |  |  |  |  |  |  |  |
| RRLPTVLLKLRMAQHLQAAVAFVEQGHVRVGPDVVTDPAFLVTRSMEDFVTWVDSSKI | 0.875 | 76 | 0.92856 | S | 0.601 | In | 0.04 | In |
| >72bb1f4a9141bfd9997f020784be294dcdb06dc6 |  |  |  |  |  |  |  |  |
| MKTAALFVSKEFEEEAIALVEGANYKVTSIYKLPKSPNVKFYIQYDKLQQIKNDEEISTLIIFEQLKPRHFINIRRELKGKEVLDKILLLLEIFALHAGSKEAKMQIELARLKYELPIIKETYTKSKIGEQQGPLGAGTYGVESTIKFYKRRINKLMKELESIKIFKEKSIESNKRNNIPSIGIVGYTNSGKTSLFNSLTGLTQKVDTKLFTTMSPKRYAIPINNRKIMLVDTVPFIRGIPPQIVDAFFVTLSEAKYSDALILVIDSTFSENLLIETLQSSFEILREIGVSGKPILVTLNKIDKINGDLYKKLDLVEKLSKELYSPIFDVIPISALKRTNLELLRDKIYQLATQLSLEHHHHHH | 0.505 | 79 | 0.853198 | In | 0.878 | In | 1.34 | In |
| >2e313f0686608e9f6644fd750bc1fc5841b9692d |  |  |  |  |  |  |  |  |
| MSHPYPPPRDKKGSRIGFTTGANAAAAAKAAALALLGEAPEVVDIWLPAGWRQPFRVFRLERKGDGVLVGMIKDAGDDPDVTHGAEIQAFVRFASEDRLEGGEGVGVVTKPGLGVPVGEPAINPVPRRMIWEAVREVTERPLAVTIAIPGGEELAKKTLNPRLGILGGLSVLGTTGVVKPYSTSAFRMSVVQAVGVARANGLLEIAATTGGKSERFAQRLLPHLPEMAFIEMGDFVGDVLRAARKVGVEVVRVVGMIGKISKMADGKTMTHAAGGEVNLSLLLSLLKEAGASPKALKEAEGAATARRFLEIALEEGLELFFVNLVRLAQEKLQAYIGERPFVSVALTDFDEGRCLAAWPDREVYRG | 0.65 | 60 | 0.605394 | S | 0.634 | S | 0.98 | In |
| >84f0da71e04a2cf6735419b4690f5f928c443556 |  |  |  |  |  |  |  |  |
| RMGEIEGTYRVLQTAGMRLGAQTPVGVSTLEPGQTLLPRMQEKHLHLRVKLLDNTMEIFDIEPKCDGQVLLTQVWKRLNLVECDYFGMEFQNTQSYWIWLEPMKPIIRQIRRPKNVVLRLAVKFFPPDPGQLQEEYTRYLFALQLKRDLLEERLTCADTTAALLTSHLLQSEIGDYDETLDREHLKVNEYLPGQQHCLEKILEFHQKHVGQTPAESDFQVLEIARKLEMYGIRFHMASDREGTKIQLAVSHMGVLVFQGTTKINTFNWSKVRKLSFKRKRFLIKLHPEVHGPYQDTLEFLLGSRDECKNFWKICVEYHTFFRLLDQPKPKAKAVFFSRGSSFRYSGRTQKQLVDYFKDSGMKRIPYERRHSKTHTSVRALTADLPKQSISFPEGLRTPASPSSANAFYSLSPSTLVPSGLPEFKDSSSSLTDPQVSYVKSPAAERRSGAVAGGPDTPSAQPLGPPALQPGPGLSTKSPQPSPSSRKSPLSLSPAFQVPLGPAEQGSSPLLSPVLSDAGGAGMDCEEPRHKRVPADEAYFIVKEILATERTYLKDLEVITVWFRSAVVKEDAMPATLMTLLFSNIDPIYEFHRGFLREVEQRLALWEGPSKAHTKGSHQRIGDILLRNMRQLKEFTSYFQRHDEVLTELEKATKRCKKLEAVYKEFELQKVCYLPLNTFLLKPIQRLLHYRLLLRRLCGHYSPGHHDYADCHDALKAITEVTTTLQHILIRLENLQKLTELQRDLVGIENLIAPGREFIREGCLHKLTKKGLQQRMFFLFSDMLLYTSKGVAGTSHFRIRGLLPLQGMLVEESDNEWSVPHCFTIYAAQKTIVVAASTRLEKEKWMLDLNSAIQAAKSGGDTAPALPGRTVCTRPPRSPNEVSLEQESEDDARGVRSSLEGHGQHRANTTMHVCWYRNTSVSRADHSAAVENQLSGYLLRKFKNSHGWQKLWVVFTNFCLFFYKTHQDDYPLASLPLLGYSVSIPREADGIHKDYVFKLQFKSHVYFFRAESKYTFERWMEVIQGASSSAGRAPSIVQDGPQPSSGLEGMVRGKEE | 0.661 | 48 | 0.761983 | S | 0.775 | S | 1.29 | In |
| >71d18c308ee843aeffa6afdb032949f926f43d2b |  |  |  |  |  |  |  |  |
| MHHHHHHSSGVDLGTENLYFQSNAMDYFNYQEDGQLWAEQVPLADLANQYGTPLYVYSRATLERHWHAFDKSVGDYPHLICYAVKANSNLGVLNTLARLGSGFDIVSVGELERVLAAGGDPSKVVFSGVGKTEAEMKRALQLKIKCFNVESEPELQRLNKVAGELGVKAPISLRINPDVDAKTHPYISTGLRDNKFGITFDRAAQVYRLAHSLPNLDVHGIDCHIGSQLTALAPFIDATDRLLALIDSLKAEGIHIRHLDVGGGLGVVYRDELPPQPSEYAKALLDRLERHRDLELIFEPGRAIAANAGVLVTKVEFLKHTEHKNFAIIDAAMNDLIRPALYQAWQDIIPLRPRQGEAQTYDLVGPVCETSDFLGKDRDLVLQEGDLLAVRSSGAYGFTMSSNYNTRPRVAEVMVDGNKTYLVRQREELSSLWALESVLPE | 0.566 | 49 | 0.667284 | S | 0.594 | S | -0.18 | S |
| >e431c2e131608072d52cd848c31e7baf171473fe |  |  |  |  |  |  |  |  |
| MKAADEPAYLTVGTDVSAKYRGAFCEAKIKTVKRLVKVKVLLKQDNTTQLVQDDQVKGPLRVGAIVETRTSDGSFQEAIISKLTDASWYTVVFDDGDERTLRRTSLCLKGERHFAESETLDQLPLTNPEHFGTPVIAKKTNRGRRSSLPVTEDEKEEESSEEEDEDKRRLNDELLGKVVSVVSATERTEWYPALVISPSCNDDITVKKDQCLVRSFIDSKFYSIARKDIKEVDILNLPESELSTKPGLQKASIFLKTRVVPDNWKMDISEILESSSSDDEDGPAEENDEEKEKEAKKTEEEVPEEELDPEERDNFLQQLYKFMEDRGTPINKPPVLGYKDLNLFKLFRLVYHQGGCDNIDSGAVWKQIYMDLGIPILNSAASYNVKTAYRKYLYGFEEYCRSANIQFRTVHHHEPKVKEEKKDLEESMEEALKLDQEMPLTEVKSEPEENIDSNSESEREEIELKSPRGRRRIARDVNSIKKEIEEEKTEDKLKDNDTENKDVDDDYETAEKKENELLLGRKNTPKQKEKKIKKQEDSDKDSDEEEEKSQEREETESKCDSEGEEDEEDMEPCLTGTKVKVKYGRGKTQKIYEASIKSTEIDDGEVLYLVHYYGWNVRYDEWVKADRIIWPLDKGGPKKKQKKKAKNKEDSEVDEKRDEERQKSKRGRPPLKSTLSSNMPYGLSKTANSEGKSDSCSSDSETEDALEKNLINEELSLKDELEKNENLNDDKLDEENPKISAHILKENDRTQMQPLETLKLEVGENEQIVQIFGNKMEKTEEVKKEAEKSPKGKGRRSKTKDLSLEIIKISSFGQNEAGSEPHIEAHSLELSSLDNKNFSSATEDEIDQCVKEKKLKRKILGQSSPEKKIRIENGMEMTNTVSQERTSDCIGSEGMKNLNFEQHFERENEGMPSLIAESNQCIQQLTSERFDSPAEETVNIPLKEDEDAMPLIGPETLVCHEVDLDDLDEKDKTSIEDVAVESSESNSLVSIPPALPPVVQHNFSVASPLTLSQDESRSVKSESDITIEVDSIAEESQEGLCERESANGFETNVASGTCSIIVQERESREKGQKRPSDGNSGLMAKKQKRTPKRTSAAAKNEKNGTGQSSDSEDLPVLDNSSKCTPVKHLNVSKPQKLARSPARISPHIKDGEKDKHREKHPNSSPRTYKWSFQLNELDNMNSTERISFLQEKLQEIRKYYMSLKSEVATIDRRRKRLKKKDREVSHAGASMSSASSDTGMSPSSSSPPQNVLAVECR | 0.708 | 99 | 0.922804 | S | 0.907 | In | -0.42 | S |
| >24a4f22e915dcfecc1fce1f422d44f2a0f398cbb |  |  |  |  |  |  |  |  |
| ATVVSGQKQDRQGGERRRSQLDRDQCAYCKEKGHWAKDCPKKPRGPRGPRPQTSLL | 0.884 | 77 | 0.911726 | S | 0.529 | S | -1.19 | S |
| >877d9f0bcd8bb55fd98d50ac7d5f00aabc24abd4 |  |  |  |  |  |  |  |  |
| ESKQIQALRYYSAQGYSVINKYLRGDDYPETQAKETLLSRDYLSTNEPSDEEFKNAMSVYINDIAEGLSSLPETDHRVVYRGLKLDKPALSDVLKEYTTIGNIIIDKAFMSTSPDKAWINDTILNIYLEKGHKGRILGDVAHFKGEAEMLFPPNTKLKIESIVNCGSQDFASQLSKLRLSDDATADTNRIKRIINMRVLN | 0.546 | 51 | 0.634645 | In | 0.613 | S | 0.51 | In |
| >71d65ffe475ce2b234e7649d6cf1968f0c6f0d42 |  |  |  |  |  |  |  |  |
| SLQALQTFNFEELPVRTLEVDGEPYFIGKDVADILGYANGRDALSKHVDEDDKKVLTSRNTTLENLPNRGLTAVNESGLYSLIFSSKLESAKRFKRWVTSDVLPAIRKYGIYATDNVIEQTLKDPDYIITVLTEYKKEKEQNLLLQQEIGELKPKADYVDEILKSTGTLATTQIAADYGISAQKLNKLLHEARLQRKVNKQWVLYSEHMGKSYTDSDTITIVRSDGREDTVLQTRWTQKGRLKIHEIMTEFGYEANLGGA | 0.429 | 62 | 0.844213 | In | 0.697 | S | -0.2 | S |
| >6e9f921d3257d227daeb630b82e41dae48623f5a |  |  |  |  |  |  |  |  |
| MMFNKQIFTILILSLSLALAGSGCISEGAEDNVAQEITVDEFSNIRENPVTPWNPEPSAPVIDPTAYIDPQASVIGEVTIGANVMVSPMASIRSDEGMPIFVGDRSNVQDGVVLHALETINEEGEPIEDNIVEVDGKEYAVYIGNNVSLAHQSQVHGPAAVGDDTFIGMQAFVFKSKVGNNCVLEPRSAAIGVTIPDGRYIPAGMVVTSQAEADKLPEVTDDYAYSHTNEAVVYVNVHLAEGYKETS | 0.576 | 91 | 0.614754 | S | 0.789 | S | -1.4 | S |
| >96af431ca43915de2a8c07019b9ad2fcb664ef37 |  |  |  |  |  |  |  |  |
| MAHHHHHHMSAPLTEHNLFSALREYASRLEVQYMIEEEVKKFQEKVLPRVLSEAFATASYAAAAESTASGDAAGAASRTVSSSPPSNTAAPSHATATPNSDWVRTFLKAHVDDVLSRQLSPMIVREVQRQLRSVNGSALAPSSSSGSQPCGESSVPAAAARARAGLPPLPPSPRPSRSPPCETTPVLAGRSTPEYRMDGNSDLTMLASAADDEGLRQRKQILNAIADIEHQLQDAQRELDEVVHQQRLSRRRFEYLCETLQGMGLSPAAENTPSSLCVALEQALDDRKADVVRARLAAILQGLLPPPTEPHSGKGAEIRNEAALTCGSSPSLAPQDGRLLSASLASTKSYAVQSSGHDTPPQLLDRSSSCLRGDAQSPPLVTTGAVEAPPAQPPYSSGMPSVNSTPASARTLTYARHGDASAAAAGAVRPAAAALSRAHRSITTRGTASSAAAAKAASLPPPPSALVTTNETAPPPLPVLRQPSRARPDADAVVSRPAPLPQACVDQSMRERAVRDTHAPTSMRMADSSATAATTTAPPASCTGPSNACFRSSLYHSVPSPSITSVASSREAAAAGEAPRAVVLGIDAVDIPPGVLPGSLGRQGAVRVESVTPQQLAERAGVCCGDVLLSVANRPIGSCEQMQAALAAVRATQPSVALEVYRHTIQEIICVTLQL | 0.422 | 76 | 0.824157 | In | 0.982 | In | 1.79 | In |
| >c18a694bc11a67bed90706ddafa6968770cd0aa6 |  |  |  |  |  |  |  |  |
| MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWYKAKNKVGREGIIPANYVQKREGVKAGTKLSLMPWF | 0.857 | 94 | 0.918387 | S | 0.582 | S | 1.28 | In |
| >ef796212d8d8e97dfae36c12c991010dc78755c2 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMIEVVCNDRLGKKVRVKCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTIFKDHVSLGDYEIHDGMNLELYYQ | 0.185 | 94 | 0.829634 | In | 0.506 | S | 0.35 | In |
| >c968dcd6f28cbae6a17e0ce3a411a00dff878b45 |  |  |  |  |  |  |  |  |
| MKALLYTPSLPRFFGARLLGKRFPRKLLPLRLAEVPLPEREGFLRVRVRLSGVCGSDLALLYGKSPPSLSPFFSFPAVLGHEILGEHEGALVAVNPLLACADRGLPPCPRCQEGEEGLCQNVAEGPLAPGMLGYNRDLPGGWGEWVLARPLRLYPIPPGVPEERAVFAEPLSVVLRGLNKLKPWPEKVLVLGMGTIGLLAVRLLRALGYAGRLLAVAKYPHQAERAKAFGADGVYGSAKEALLARARRYRYLLFEGHRGGYEAVVEASGSGRGFREALALAREGGKVLLLGAPGLEVVDLSPFWFKEVALWGSYTYTREEFREAVGLLPELEGLESLVGGVYPLEAWPEALVAKGKALFRPKG | 0.743 | 67 | 0.890767 | S | 0.684 | S | 2.17 | In |
| >a62791cc6fc8dc97d491a370af87143c7303d410 |  |  |  |  |  |  |  |  |
| MAHHHHHHMADGPPRFFTKPEEYVGVNNHRRTLFLDMDETLVHCYFEKPTFFIDTNEDFFQFTLEDDPSVTYYAFRRPGLNEFLYQCAEHYDMRIFTAGEDLYARTLLRWLLPDNLIDESRWYTRDACVGDGYGRLIKNLSMLDGFQFEERATLILDDSAPDNVYPHQNALAIPRFAPQTGHTDEENYGRMQADRGLEMFGRMLCGEHFTRCDDVRVPIARFYALIRTYTRSSTAKSEM | 0.419 | 14 | 0.78209 | In | 0.777 | In | -1.56 | S |
| >c2e9c2aba99c23f0cb6f57e226211bac1a6fd129 |  |  |  |  |  |  |  |  |
| MAMLYLIFYDITDDNLRNRVAEFLKKKGLDRIQYSVFMGDLNSSRLKDVEAGLKIIGNRKKLQEDERFFILIVPITENQFRERIVIGYSGSEREEKSNVVW | 0.266 | 96 | 0.712253 | In | 0.5 | S | 0.6 | In |
| >4439551c933d177d19053f4e80b649fd0c53088d |  |  |  |  |  |  |  |  |
| MNLPTAQEVQGLMARYIELVDVGDIEAIVQMFADDATVENPFGQPPIHGREQIAAFFRQGLGGGKVRACLTGPVRASHNGCGAMPFRVEMVWNGQPCALDVIDVMRFDEHGRIQTMQAFWSEVNLSVREPQ | 0.227 | 23 | 0.90038 | In | 0.541 | S | -0.53 | S |
| >8cb2c1fd1cd28e8c95e2c427a281c5ec482dfd23 |  |  |  |  |  |  |  |  |
| SSDRLAGAGSGGAVVTVAFTNARDCFLHLPRRLVAQLHLLQNQAIEVASDHQPTYLSWVEGRHFNDQSENVAEINRQVGQKLGLSSGDQVFLRPCSHVVSCQQVEVEPLSADDWEILELHAISLEQHLLDQIRIVFPKAVVPIWVDQQTYIFIQIVTLMPAAPYGRLETNTKLLIQPKT | 0.702 | 40 | 0.832806 | S | 0.716 | S | -0.48 | S |
| >549abe61c035e9b79815e2878d5bd59e5b47d91c |  |  |  |  |  |  |  |  |
| AASTLTRLPIDVQLYILSFLSPHDLCQLGSTNHYWNETVRDPILWRYFLLRDLPSWSSVDWKSLPDLEILKKPISEVTDGAFFDYMAVYRMCCPYLIIQNEPRFAMFGPGLEELNTSLVLSLMSSEELCPTAGLPQRQIDGIGSGVNFQLNNQHKFNILILYSTTRKERDRAREEHTSAVNKMFSRHNEGDDQQGSRYSVIPQIQKVCEVVDGFIYVANAEAHKRHEWQDEFSHIMAMTDPAFGSSGRPLLVLSCISQGDVKRMPCFYLAHELHLNLLNHPWLVQDTEAETLTGFLNGIEWILEEVESKRAR | 0.633 | 26 | 0.670873 | In | 0.812 | In | -0.22 | S |
| >4704ae7633bfe88673c8eb94f43d5992c9f5c664 |  |  |  |  |  |  |  |  |
| MPSSSQYRRYQDPHHPSIPTPTTLFSQPSLEILGGGVAEELPELALCCDGTVVEGRSNCRCKARAVLPGGMRVRLSKTLAGILRHHPGRYGVRLTREGWARVSEVVEGLRKAGWSWVEEWHIVGVALHDPKGRYELRNGEIRARYGHSIPVNVEPLPGEPPPILYHGTTEEALPLIMERGIMRGRRLKVHLTSSLEDAVSTGRRHGNLVAVLLVDVECLRRRGLKVERMSKTVYTVDWVPPECIAEVRRESLGRSL | 0.714 | 95 | 0.668405 | S | 0.677 | S | 2.17 | In |
| >51477ff6cb6665d6f289064da03c34afac44fc9e |  |  |  |  |  |  |  |  |
| MPGFTCCVPGCYNNSHRDKALHFYTFPKDAELRRLWLKNVSRAGVSGCFSTFQPTTGHRLCSVHFQGGRKTYTVRVPTIFPLRGVNERKVARRPAGAAAARRRQQQQQQQQQQQQQQQQQQQQQQQQQQQQSSPSASTAQTAQLQPNLVSASAAVLLTLQATVDSSQAPGSVQPAPITPTGEDVKPIDLTVQVEFAAAEGAAAAAAASELQAATAGLEAAECPMGPQLVVVGEEGFPDTGSDHSYSLSSGTTEEELLRKLNEQRDILALMEVKMKEMKGSIRHLRLTEAKLREELREKDRLLAMAVIRKKHGM | 0.683 | 35 | 0.651154 | S | 0.834 | In | 1.22 | In |
| >e9eadc2c551aedec704f1a6002c5be3a4c348ee2 |  |  |  |  |  |  |  |  |
| IVPANHFGPIPGVPVGTMWRFRVQVSESGVHRPHVAGIHGRSNDGAYSLVLAGGYEDDVDNGNYFTYTGSGGRDLSGNKRTAGQSSDQKLTNNNRALALNCHSPINEKGAEAEDWRQGKPVRVVRNMKGGKHSKYAPAEGNRYDGIYKVVKYWPERGKSGFLVWRYLLRRDDTEPEPWTREGKDRTRQLGLTMQYPEGYLEALANKEKSRKR | 0.745 | 74 | 0.812705 | S | 0.653 | S | 2.37 | In |
| >0f309f887de14f6695af0fa826c74f213ec857a3 |  |  |  |  |  |  |  |  |
| SNAQIAAVDPAGMSVIRDRNQLFRVNSAGEVENTYTLKVINKTQQVQEYNLDVKGLNDVSWYGKQTIQVEPGEVLNLPMSLGADPDKLNSAITTIQFILTDKSNEFTIEVESRFIKKL | 0.817 | 50 | 0.59737 | In | 0.679 | S | 0.31 | In |
| >961005cb9a1947de1321502d1c3d3a5cb7049171 |  |  |  |  |  |  |  |  |
| MSLEVMARPPNNLTPEPVSPVLLTPDGSRTAHNARYGEAYGSRHGAQTQAHHVFLEGSGSDSDPAPRVLEIGFGLGVNFRATLANTAGRGVALDYLAYEFDPAPANLLREVAEGGEGAGHPLWPQVLGMWGQAEALDEAANGARLRVKFCDVTRAELPQYWATALYLDGFSPTRNPEVWTPDFVARLAGALAPGGVLTTYSAAGHVRRSLAAAGLDVERRPGAPGKRECLRAVKPAEGHHHHHH | 0.739 | 56 | 0.850013 | S | 0.612 | S | 1.03 | In |
| >3353f55f8c3fe92fbec7a18eb2be7e799d0a48b0 |  |  |  |  |  |  |  |  |
| SEKPAGSLQEQALKRKERLKALRDRQLQGHAPADGEPERKRALEDTETEDRHRELKLRNYTPEDVELKERQVPKAKPASVDDKVKDQLEAANPEPVIEEVDLANLAPRKPDWDLKRDVAKKLEKLERRTQKAIAELIRERLKGSEEELAGAVGAVGVEEGDSD | 0.859 | 71 | 0.812103 | S | 0.818 | S | -1.04 | S |
| >69a95fc756237a8479a3b8e3b4c995ac0d006272 |  |  |  |  |  |  |  |  |
| MSLHADTATRQHWMSVLAHSQPAELAARLNALNITADYEVIRAAETGLVQIQARMGGTGERFFAGDATLTRAAVRLTDGTLGYSWVQGRDKQHAERCALIDALMQQSRHFQNLSETLIAPLDADRMARIAARQAEVNASRVDFFTMVRGDNAEGHHHHHH | 0.405 | 24 | 0.552123 | In | 0.533 | S | -0.65 | S |
| >81dde96f1b47b04b3cefc9fe5213fc52f494cf0e |  |  |  |  |  |  |  |  |
| MTSKHFISKKEAKRIWEQMSRYGIDITGESLEVAAQKSASAYYIGGKPMVFQAGDLIPSVYLLNYRNPSRNIVTVDEGAEPHILNGSDLFAPGIVSMDDSIRKGDMIFVKSSKGYFIAVGMAEMDAGEVMATKRGKAARIIHFPGDELIRAFP | 0.393 | 41 | 0.616726 | S | 0.518 | S | 1.43 | In |
| >2297f7c4618d79919edd59c443b287a39df59329 |  |  |  |  |  |  |  |  |
| MTSTRLQKLRIRAPGCGTAEVTTSNAPSEEVTAVTTEVQGETEEKKKVLTTFTVLADMVQNVAGDKLVVESITRIGAEIHGYEPTPSDIVKAQDADLILYNGMNLERWFEQFLGNVKDVPSVVLTEGIEPIPIADGPYTDKPNPHAWMSPRNALVYVENIRQAFVELDPDNAKYYNANAAVYSEQLKAIDRQLGADLEQVPANQRFLVSCEGAFSYLARDYGMEEIYMWPINAEQQFTPKQVQTVIEEVKTNNVPTIFCESTVSDKGQKQVAQATGARFGGNLYVDSLSTEEGPVPTFLDLLEYDARVITNGLLAGTNAQQ | 0.482 | 70 | 0.632095 | S | 0.653 | S | -0.98 | S |
| >fbe4ce2de39510ec9fcd890cec0abff4307d21b3 |  |  |  |  |  |  |  |  |
| MKRLLKEKEGIRLEFKEARTALPGNLFETICSMLNHDGGDIVLGVSDDGTVAGVEHAKMETMVSNLVNLSNNPQKLDPPFILFPQTYEIDGKWLIHIQVPSSSQVHKTSGIVFNRSNDGDFRVTQPQQIAEIYNRKRMHYTEGIIYPGLRFEDFKVDLFPKVRNLIRSNNPNHPWLALTDQQMLEKAGLWKRDINSTQEGYTLAAALLLGKDEVIQQLLPFFKIDALVRIEDIYRYDDREYIQTNLIEAYEQLMTFVGKHLPDKFYMEGDQRVSLRNKIFREIAANLIVHREYMNAYPCTFIIYSDRVETENANNPHGEGPIDPEHFAPFPKNPTIIKFFMQLGRVDELGSGILNVNRFIKEYANGGSSQFIEGNVFKMIIPVAGEKIEGAIEGAIEGAIEGAIEGATKKVKDKLAILLKAIAENEGKKVPDYVVITKIPRSSIERYIKQLREANLIDFRDKATLIGGYYLTSKMKQKLKEKS | 0.759 | 56 | 0.687656 | In | 0.668 | In | 0.64 | In |
| >228739fb91f18cadcd8bec6cc207aee8589534df |  |  |  |  |  |  |  |  |
| ATSTKKLHKEPATLIKAIDGDTVKLMYKGQPMTFRLLLVDTPETKHPKKGVEKYGPEASAFTKKMVENAKKIEVEFDKGQRTDKYGRGLAYIYADGKMVNEALVRQGLAKVAYVYKPNNTHEQHLRKSEAQAKKEKLNIWSENDADSGQ | 0.759 | 99 | 0.521094 | S | 0.64 | S | 0.39 | In |
| >5318c0cb4c61ce5efb37feff0290be330ef33641 |  |  |  |  |  |  |  |  |
| GSHMIILKLGGSVITRKDSEEPAIDRDNLERIASEIGNASPSSLMIVHGAGSFGHPFAGEYRIGSEIENEEDLRRRRFGFALTQNWVKKLNSHVCDALLAEGIPAVSMQPSAFIRAHAGRISHADISLIRSYLEEGMVPVVYGDVVLDSDRRLKFSVISGDQLINHFSLRLMPERVILGTDVDGVYTRNPKKHPDARLLDVIGSLDDLESLDGTLNTDVTGGMVGKIRELLLLAEKGVESEIINAAVPGNIERALLGEEVRGTRITGKH | 0.788 | 78 | 0.5836 | In | 0.608 | S | 0.48 | In |
| >4a5a78eb14bcec944f1ae3214f77673bef9fce03 |  |  |  |  |  |  |  |  |
| MANVKLLLPYILKWEGGFVHDPADAGGATNKGVTIATWKRVGYDKDGDGDIDVEDLKLLTDDDVLNRVLKPFYWDRWKADLIESQKVANILVDWVWGSGKYGIVIPQRILGVQADGIVGNKTLQAVNSADPDELFESIFDARREFLEDITARSIKKYEDSIGRKATERELLRHTNKRFLRGWLNRLEDIRKL | 0.64 | 79 | 0.921673 | S | 0.726 | S | -0.09 | S |
| >dde928bb9e51c1097faf7ef91ec1d14b62008e2d |  |  |  |  |  |  |  |  |
| MERVNDASCGPSGCYTYQVSRHSTEMLHNLNQQRKNGGRFCDVLLRVGDESFPAHRAVLAACSEYFESVFSAQLGDGGAADGGPADVGGATAAPGGGAGGSRELEMHTISSKVFGDILDFAYTSRIVVRLESFPELMTAAKFLLMRSVIEICQEVIKQSNVQILVPPARADIMLFRPPGTSDLGFPLDMTNGAALAANSNGIAGSMQPEEEAARAAGAAIAGQASLPVLPGVDRLPMVAGPLSPQLLTSPFPSVASSAPPLTGKRGRGRPRKANLLDSMFGSPGGLREAGILPCGLCGKVFTDANRLRQHEAQHGVTSLQLGYIDLPPPRLGENGLPISEDPDGPRKRSRTRKQVACEICGKIFRDVYHLNRHKLSHSGEKPYSCPVCGLRFKRKDRMSYHVRSHDGSVGKPYICQSCGKGFSRPDHLNGHIKQVHTSERPHKCQVWVGSSSGLPPLEPLPSDLPSWDFAQPALWRSSHSVPDTAFSLSLKKSFPALENLGPAHSSNTLFCPAPPGYLRQGWTTPEGSRAFTQWPVG | 0.692 | 87 | 0.647402 | S | 0.614 | S | 2.81 | In |
| >548517b56a07e59450dfe3d7cefbe6e1f6c4dd85 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMEARDKQVLRSLRLELGAEVLVEGLVLQYLYQEGILTENHIQEINAQTTGLRKTMLLLDILPSRGPKAFDTFLDSLQEFPWVREKLKKAREEAMTDLPAGDRLTGIPSHILNSSPSDRQINQLAQRLGPEWEPMVLSLGLSQTDIYRCKANHPHNVQSQVVEAFIRWRQRFGKQATFQSLHNGLRAVEVDPSLLLHMLE | 0.654 | 38 | 0.72772 | In | 0.798 | S | 0.22 | In |
| >fef3e7e846af6e3858af12b02c9b211ba4c6743c |  |  |  |  |  |  |  |  |
| MSLRNDATNAAGAVGAAMRDHILLPAQEMAKLGKSAQPVLTHAEGIYVHTEDGRRLIDGPAGMWCAQVGYGRREIVDAMAHQAMVLPYASPWYMATSPAARLAEKIATLTPGDLNRIFFTTGGSTAVDSALRFSEFYNNVLGRPQKKRIIVRYDGYHGSTALTAACTGRTGNWPNFDIAQDRISFLSSPNPRHAGNRSQEAFLDDLVQEFEDRIESLGPDTIAAFLAEPILASGGVIIPPAGYHARFKAICEKHDILYISDEVVTGFGRCGEWFASEKVFGVVPDIITFAKGVTSGYVPLGGLAISEAVLARISGENAKGSWFTNGYTYSNQPVACAAALANIELMEREGIVDQAREMADYFAAALASLRDLPGVAETRSVGLVGCVQCLLDPTRADGTAEDKAFTLKIDERCFELGLIVRPLGDLCVISPPLIISRAQIDEMVAIMRQAITEVSAAHGLTAKEPAAVEGHHHHHH | 0.601 | 28 | 0.571324 | In | 0.512 | S | 0 | S |
| >e96950fe4b7a02715cfa16ef753a6cfac0798a4e |  |  |  |  |  |  |  |  |
| MRRRARELAMRALFAHTVGGMGLEEAFQHALEEMGGEEEGYAEPLDQEGVAFARRLLSGYKAHQEEVDRVLEETVEGWDFRQMAKTDLAVLRLAVYEMLYEPTPFEPLIEVAVKIANRYGGEHSGSFVNGVLARVYRRVAAGELKTVAKEA | 0.444 | 60 | 0.557547 | S | 0.641 | S | -1.62 | S |
| >a5aed7a546ed8518b46e08c8dcc0745a7f45dd86 |  |  |  |  |  |  |  |  |
| LHLTQPQILFVRKTWNHARNQGALEPAISIFRNSFFKNPEIRQMIMFGTKNEGHERLKKHAQLFTVLMDDLIANLDSPSATVAGLREAGEKHVWPTRNQYGCPFHAHLLDQFATAMIERTLEWGEKKDRTETTQRGWTKIVLFVTEQLKEGFQDEQKRARR | 0.577 | 45 | 0.618642 | In | 0.717 | In | 0.75 | In |
| >cbbba97f36f56c5dde8ac649b0f47351cf40490d |  |  |  |  |  |  |  |  |
| MARQVFDDKLLAVISGNSIGVLATIKHDGRPQLSNVQYHFDPRKLLIQVSIAEPRAKTRNLRRDPRASILVDADDGWSYAVAEGTAQLTPPAAAPDDDTVEALIALYRNIAGEHSDWDDYRQAMVTDRRVLLTLPISHVYGLPPGMR | 0.407 | 48 | 0.820365 | S | 0.632 | In | 0.15 | In |
| >cc52a3b10ae6734fc02c0e41772664478a65d4f8 |  |  |  |  |  |  |  |  |
| MSLQDRNFDDIAEKFSRNIYGTTKGQLRQAILWQDLDRVLEEIGGRKLRVLDAGGGEGQTAIKMAERGHQVTLCDLSGEMIARARQAAEAKGVSKDMHFIQCPAQDVASHLESPVDLILFHAVLEWVADPVGVLETLWSVLRPGGALSLMFYNANGLLMHNMVAGNFDYVQAGMPKRKKRTLSPDYPRDPAQVYQWLEAIGWQITGKTGVRVFHDYLREKHQQRDCYETLVELETRYCRQEPYISLGRYIHVTAIKSPALAADARITYEEGHHHHHH | 0.728 | 34 | 0.776429 | In | 0.658 | S | -0.19 | S |
| >dcb134f0a088c72ea00bbbba66f89ffd04fc8182 |  |  |  |  |  |  |  |  |
| MLKPALEPRGGFSFENCQRNASLERVLPGLKVPHARKTGTTIAGLVFQDGVILGADTRATNDSVVADKSCEKIHFIAPKIYCCGAGVAADAEMTTRMVASKMELHALSTGREPRVATVTRILRQTLFRYQGHVGASLIVGGVDLTGPQLYGVHPHGSYSRLPFTALGSGQDAALAVLEDRFQPNMTLEAAQGLLVEAVTAGILGDLGSGGNVDACVITKTGAKLLRTLSSPTEPVKRSGRYHFVPGTTAVLTQTVKPLTLELVEETVQAMEVE | 0.609 | 47 | 0.647716 | S | 0.546 | S | 0.96 | In |
| >dfd85f5008772026fae01e47a34e8a16195e45b8 |  |  |  |  |  |  |  |  |
| GEPLYTEQDLAVNGREGFPNYRIPALTVTPDGDLLASYDGRPTGIGAPGPNSILQRRSTDGGRTWGEQQVVSAGQTTAPIKGFSDPSYLVDRETGTIFNFHVYSQRQGFAGSRPGTDPADPNVLHANVATSTDGGLTWSHRTITADITPDPGWRSRFAASGEGIQLRYGPHAGRLIQQYTIINAAGAFQAVSVYSDDHGRTWRAGEAVGVGMDENKTVELSDGRVLLNSRDSARSGYRKVAVSTDGGHSYGPVTIDRDLPDPTNNASIIRAFPDAPAGSARAKVLLFSNAASQTSRSQGTIRMSCDDGQTWPVSKVFQPGSMSYSTLTALPDGTYGLLYEPGTGIRYANFNLAWLGGICAPFTIPDVALEPGQQVTVPVAVTNQSGIAVPKPSLQLDASPDWQVQGSVEPLMPGRQAKGQVTITVPAGTTPGRYRVGATLRTSAGNASTTFTVTVGLLDQARMSIADVDSEETAREDGRASNVIDGNPSTFWHTEWSRADAPGYPHRISLDLGGTHTISGLQYTRRQNSANEQVADYEIYTSLNGTTWDGPVASGRFTTSLAPQRAVFPARDARYIRLVALSEQTGHKYAAVAELEVEGQR | 0.688 | 42 | 0.637803 | S | 0.654 | S | 1.48 | In |
| >0faa6c832e458239b0648c049dd432cf179268bd |  |  |  |  |  |  |  |  |
| SNADPGAEPEASIDDLDAEALIRMALGPRNTMTSSNEQLVDALRASLKENEELRKESRRRADRRQEPM | 0.883 | 89 | 0.921911 | S | 0.598 | In | -0.71 | S |
| >3d9dab2e2bfc08442305c09c07958df67cfd07da |  |  |  |  |  |  |  |  |
| MVSVIDKLVFDFGGKTLVSLAPDNNTLCVANKNGLTKILKTNNPEEEPETLDSSKLVSSIKCYSNSHFLMTTMQGDALRYNIDSSQEELLARFALPLRDCCVIHSGKMAVFGGDDLELILLELDDETHKKHAIKIDEQVSQISYNSQMNILAVSMINGKVQIFSLTSTIPNKVHELNDYIVANSYDDTHRDKILSNMMDDIDKDNDNDLSETADPDENNVADPEFCAANRICTRVAWHPKGLHFALPCADDTVKIFSIKGYSLQKTLSTNLSSTKAHFIDLQFDPLRGTYIAAVDLNNKLTVWNWETSEIHYTREFKRKITNIAWKIQADSKTLDLVLGTWSGSIAIVQNLAESVVSNIPDQ | 0.406 | 75 | 0.62168 | In | 0.9 | In | -0.49 | S |
| >fc389cb9221af3f337d9b5d261fbb3af1f201caf |  |  |  |  |  |  |  |  |
| MPNPSSTSSPYPLPEEIRNLLADVETFVADILKGENLSKKAKEKRESLIKKIKDVKSIYLQEFQDKGDAEDGEEYDDPFAGPPDTISLASERYDKDDEAPSDGAQFPPIAAQDLPFVLKAGYLEKRRKDHSFLGFEWQKRWCALSKTVFYYYGSDKDKQQKGEFAIDGYSVRMNNTLRKDGKKDCCFEISAPDKRIYQFTAASPKDAEEWVQQLKFVLQDMESDIIPEDYDERGELYDDVDHPLPISNPLTSSQPIDDEIYEELPEEEEDSAPVKVEEQRKMSQDSVHHTSGDKSTDYANFYQGLWDCTGAFSDELSFKRGDVIYILSKEYNRYGWWVGEMKGAIGLVPKAYIMEMYDI | 0.514 | 96 | 0.577678 | S | 0.504 | In | -1.63 | S |
| >7ce06186b4b61bf166c150ce6636168f260c1958 |  |  |  |  |  |  |  |  |
| MIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDLSFSKDGSFYLLYYTEFTPTEKDEYACRVNHVTLSQPKIVKWDRDM | 0.344 | 90 | 0.746503 | S | 0.646 | In | 0.36 | In |
| >31357d9018fac83e5801d167fe0d3c05ff7aa3a8 |  |  |  |  |  |  |  |  |
| SVVVQLTLAFREGTINVHDVETQFNQYKTEAASRYNLTISDVSVSDVPFPFSAQS | 0.544 | 44 | 0.910904 | S | 0.594 | In | -0.56 | S |
| >58eb3d0f321305e6702d410d5a95e6f4e36a336a |  |  |  |  |  |  |  |  |
| MYVLKFDSSRTPSREEIKELIAKHEGVDKELVIVDNNKQLTGKHEIEGYTKIYADKPSAMLYEPDYELIRNGLKQKEAK | 0.621 | 99 | 0.631266 | In | 0.746 | S | -0.24 | S |
| >912bfcd4d71251bbf71bba079639d44efe732015 |  |  |  |  |  |  |  |  |
| MFAYKLLVDERGKRYLLKKNVEKFGTDLGIVDMKDIEEGVELKSHKGHTFYLVEPTMFDILKRMKRTVTTLLPKDIGFIIARAGIREGETVVEAGTGSGALTMYLSNAVGKTGKVITYDIRPEFAKVARKNLLRVGAIKKGQKIIGLDEEFDDEDEIEIEDGLFNVIQKIGDVREKIDEKDVDVIVLDLPDPWNVVENAKKALNKKRGRIVTYLPYIEQVKKTVEKLKEEGFWDIHTYEIIEREIEISEKGVRPSTRMIGHTGYITVARVPPEPLDREEEKE | 0.702 | 99 | 0.664918 | S | 0.667 | In | -0.66 | S |
| >51ace4c58caa1c09309600388c69a6c464b35b44 |  |  |  |  |  |  |  |  |
| MPLNQEHPDYTYALRAADGRHAKVNEQILQQSFILMPDELVEHWPVPSLGQLQPAHMDAVLALNPAVILLGTGERQQFPSTDVLAACLTRGIGLEAMTNAAAARTYNVLASEGRRVALAMIVGGLEHHHHHH | 0.34 | 32 | 0.818381 | S | 0.704 | S | -0.68 | S |
| >691052051ce9558ec03b913ad03b3e5e2f1b8c1b |  |  |  |  |  |  |  |  |
| MGSSHHHHHHHHSSGLVPRGSHMFYPDPFDVIIIGGGHAGTEAAMAAARMGQQTLLLTHNIDTLGQMSCNPAIGGIGKGHLVKEVDALGGLMAKAIDQAGIQFRILNASKGPAVRATRAQADRVLYRQAVRTALENQPNLMIFQQAVEDLIVENDRVVGAVTQMGLKFRAKAVVLTVGTFLDGKIHIGLDNYSGGRAGDPPSIPLSRRLRELPLRVGRLKTGTPPRIDARTIDFSVLAQQHGDNPMPVFSFMGNASQHPQQVPCYITHTNEKTHDVIRSNLDRSPMYAGVIEGVGPRYCPSIEDKVMRFADRNQHQIFLEPEGLTSNEIYPNGISTSLPFDVQMQIVRSMQGMENAKIVRPGYAIEYDFFDPRDLKPTLESKFIQGLFFAGQINGTTGYEEAAAQGLLAGLNAARLSADKEGWAPARSQAYLGVLVDDLCTLGTKEPYRMFTSRAEYRLMLREDNADLRLTEIGRELGLVDDERWARFNEKLENIERERQRLKSTWVTPSAEAAAEVNAHLTAPLSREASGEDLLRRPEMTYEKLTTLTPFAPALTDEQAAEQVEIQVKYEGYIARQQDEIEKQLRNENTLLPATLDYRQVSGLSNEVIAKLNDHKPASIGQASRISGVTPAAISILLVWLKKQGMLRRSA | 0.382 | 32 | 0.768857 | In | 0.539 | S | 0.73 | In |
| >7323ad96632055718ad563509973fbf53b1a127b |  |  |  |  |  |  |  |  |
| MGSSHHHHHHGGTGENLYFQGGSGKSKQAPRASAKQTPSVSKKSGHATNKAITTSTASPSTSDLDEVASLFNTIKQAKAQKHGSAATLQPPSLQRGAGGASVKAHDIKRSSSGAGAPPPSSSSGAQAKPVRDGLYHAPEKSLQMSDNQFFSGTWLREDRAAATTATTSSAVPSTESPEASEELLRREGVNRIVSMEELSKILSHNTRAGTTPNCPFDCDCCF | 0.669 | 99 | 0.836923 | S | 0.756 | In | 3.21 | In |
| >6d9bdcaef734b09c0d4cfe0b281e7734b808bad4 |  |  |  |  |  |  |  |  |
| EPAEIKIIREAYKKAFLFVNKGLNTDELGQKEEAKNYYKQGIGHLLRGISISSKESEHTGPGWESARQMQQKMKETLQNVRTRLEILEKGLATSLQNDLQEVP | 0.818 | 76 | 0.892264 | S | 0.665 | S | 0.99 | In |
| >b29d159b98f50bd888b52a7f529a590caf969076 |  |  |  |  |  |  |  |  |
| MSLKEITFGYVAAGMQFPFNVAVVKGFQAAAKEVGVKTIILDGKTSVEKQGNAIDDLLAQKVDGIAVLPIDGLVAQGWVDRVTAHNIPFVSVATEIGDPQKRPIRDVYPKATALVSSDEIHTGINSGDIAAQLLPKGRVAKIAILEGAPGMPQNWQRTKGFKEGLEKSGIKYQIVASQPTDLTPEQGQSVCQNIITAHPDVDLIYNQADDLVIGCAKAVREASSHAKLVGWGGSRLGIAAIKTGDVDGTVCVQPEKMGQLAFKALYTQFTKPDTPKAQFIEVDTPGVTKANIASCVPQEGHHHHHH | 0.768 | 92 | 0.645024 | In | 0.548 | S | 0.59 | In |
| >319d653071b03d7060c51aa26cf8d0f680ef0aa1 |  |  |  |  |  |  |  |  |
| MSLKILSIIYDGGSRIPGARFAPTKYYQEAMLYDRKDSDIITINLGNQDLFSIDLESLSRTIAESKVQIALGGDHSVTYLLAKATVREGAYLIVLDAHLDYFKDFESVVKNWNFLSFLTDIFEKIIIIGERNFEFPSSFDNKIIILSMEEYWLNKSRVLKKLDSYIDESKDIYLSIDIDVLDPSVFDSVSYPIIGGFQMNDFLGIISKILCSDKVYFCDIVEYNPMVGSDNAHIFYQMIQFVKSKLRREGHHHHHH | 0.483 | 40 | 0.746811 | In | 0.78 | In | -0.5 | S |
| >a8c2e79b590bc5a050594a352158799ec6de6a45 |  |  |  |  |  |  |  |  |
| MKGTIVGTWIKTLRDLYGNDVVDESLKSVGWEPDRVITPLEDIDDDEVRRIFAKVSEKTGKNVNEIWREVGRQNIKTFSEWFPSYFAGRRLVNFLMMMDEVHLQLTKMIKGATPPRLIAKPVAKDAIEMEYVSKRKMYDYFLGLIEGSSKFFKEEISVEEVERGEKDGFSRLKVRIKFKNPVFEYKKN | 0.68 | 88 | 0.592317 | S | 0.611 | S | 0.83 | In |
| >0463d4023070a69d634f5a389a2593ee74d1c2eb |  |  |  |  |  |  |  |  |
| MPIDYSKWKDIEVSDDEDDTHPNIDTPSLFRWRHQARLERMAEKKMEQEKIDKEKGTTSKKMEELEKKLAAADVTDKSDIQKQIDEVKAQEEAWRKKEAELEEKERLEPWNVDTIGHEAFSTSRINKITEKKPQAPKTDEEDTHAMSTFFETHESLLEKMAVLKNGAKSTELFLAEHPHMASEYTANWLTIEALNAAIDFNEEKMKTMAEQCIIIQYLLELSKSLNAVATNTTVQKQFFKKFEAAEPVYMKHYQDEVKAFEDRLRTRAQTKRDAAMEEAEAEEKAERMKSAPGGIDPQEVFEQLPEEMRKCFEAHDIEALKGVAQKMDEEVFKYHFDRCIASGLWVPGKADDDDDDEEAAPAEEEPTTSS | 0.488 | 100 | 0.836967 | S | 0.957 | In | -3.15 | S |
| >c2846f506ff208043a5f7e2b2ee1f6ec9e7c9cc3 |  |  |  |  |  |  |  |  |
| MSLEQLRAELSHLLGEKLSRIECVNEKADTALWALYDSQGNPMPLMARSFSTPGKARQLAWKTTMLARSGTVRMPTIYGVMTHEEHPGPDVLLLERMRGVSVEAPARTPERWEQLKDQIVEALLAWHRQDSRGCVGAVDNTQENFWPSWYRQHVEVLWTTLNQFNNTGLTMQDKRILFRTRECLPALFEGFNDNCVLIHGNFCLRSMLKDSRSDQLLAMVGPGLMLWAPREYELFRLMDNSLAEDLLWSYLQRAPVAESFIWRRWLYVLWDEVAQLVNTGRFSRRNFDLASKSLLPWLAEGHHHHHH | 0.402 | 13 | 0.8061 | In | 0.809 | In | 0.33 | In |
| >5294f8b5920ecc4fe9623610ded687418753e8ad |  |  |  |  |  |  |  |  |
| GAMGTTNGTDYGAYTYKELEREQYWPSENLKISITGAGGFIASHIARRLKHEGHYVIASDWKKNEHMTEDMFCDEFHLVDLRVMENCLKVTEGVDHVFNLAADMGGMGFIQSNHSVIMYNNTMISFNMIEAARINGIKRFFYASSACIYPEFKQLETTNVSLKESDAWPAEPQDAFGLEKLATEELCKHYNKDFGIECRIGRFHNIYGPFGTWKGGREKAPAAFCRKAQTSTDRFEMWGDGLQTRSFTFIDECVEGVLRLTKSDFREPVNIGSDEMVSMNEMAEMVLSFEEKKLPIHHIPGPEGVRGRNSDNNLIKEKLGWAPNMRLKEGLRITYFWIKEQIEKEKAKGSDVSLYGSSKVVGTQAPVQLGSLRAADGKE | 0.475 | 50 | 0.735373 | In | 0.797 | In | 0.36 | In |
| >e362e95506dcf4c09f26b1b87cf9f49d5ec6698c |  |  |  |  |  |  |  |  |
| MQGQGAPCRRSRSRSRSRGAFNRRSNYGEAHPIQPAVLASIVEEPSSSIMPVVNPLMVAAKELKFPCQLAHGSPVAIIDKWNDMEELYQSIADFFAISKDDIIFLTVNDFKPDMKNMFSGTLNFKDMLFAHVRGQATELRMVKDANVFGVTVTDNGLGNAFIKVISPGSVFDRMRPATQVGQLIEAINGESVLGKRHYQVARMLKSIRRGEECIIRLIAPKSADPGTMKMTRKTGGDLAKGTIRFKSEGGFAVEDIQDQMIQAEMCGKLNELFDQYLGVQDDQLAMRIWETASNCETLWQLSEAIKQSELSMFEFPDGLVFDMWGIIGDLKREQREKKPMPVMKNAISRPSAMKLFD | 0.409 | 40 | 0.717014 | In | 0.965 | In | 1.11 | In |
| >fcc19c8ea4c1d6d1be913121d530fb42729b0081 |  |  |  |  |  |  |  |  |
| MASVERDETREHRIETEIIVDAEDKEERAMGWYYYLDDTLEFPFMGKWKKKSRKTSTIEEKTVEVLGMAPDDECLKDMYVEVADIGGKDDDVYTAKLSDIEAIDVDDDTQEAIADWLYWLARGYKF | 0.341 | 99 | 0.934998 | S | 0.587 | S | -5.12 | S |
| >8082ede3f1b5eb38333e6bf827c7f9000a226715 |  |  |  |  |  |  |  |  |
| GSSITGISPITEYLASLSTYNDQSITFALEDESYEIYVEDLKKDEKKDKVLLSYYESQHPSNESGDGVDGKMLMVTLSPTKDFWLHANNKEHSVELHKCEKPLPDQAFFVLHNMHSNCVSFECKTDPGVFIGVKDNHLALIKVDSSENLCTENILFKLSET | 0.792 | 100 | 0.586228 | S | 0.693 | S | -1.15 | S |
| >3379d0b05f2ce1855f5dbba1c89e8db5b0b8de4d |  |  |  |  |  |  |  |  |
| MSLTTDVNKTETPKAGFSLKSDSKADDKSKNFSFGTSKDGKNTSETDKTESAKSNLGTEASSQQKLESKPVEVKPVSLDNKTLDDLVTKWTNQLSSASKHFDQYSKRITDWDRILVDGGKQISQLYTEAVNAEQAQNKIDQSLQYIERQQEELETFLDNYESRTEALLSDILPSNSGVPGNNNDQKRLQAYKTAESLDENLNALSANLSSLIDEVNDVSNTFNNVTSINLNNKDESAQLIKLLNVHLDALKSLDNNALLLENKIDSIQKEGHHHHHH | 0.689 | 97 | 0.859083 | S | 0.785 | In | 0.14 | In |
| >56f64cdc437d658c5488a759d16672b4bc31cded |  |  |  |  |  |  |  |  |
| AVQQNKELNFKLREKQNEIFELKKIAETLRSKLEKYVDITKKLEDQNLNLQIKISDLEKKLSDANSTFKEMRFP | 0.764 | 100 | 0.714915 | S | 0.572 | In | 0.27 | In |
| >ecdb84f56b21d998d69f8612583fcbe230cbfbf1 |  |  |  |  |  |  |  |  |
| RPSWSPTQASGQTVLPFTGIDFRLSPSGVAVDSAGNVYVTSEGMYGRVVKLATGSTGTTVLPFNGLYQPQGLAVDGAGTVYVTDFNNRVVTLAAGSNNQTVLPFDGLNYPEGLAVDTQGAVYVADRGNNRVVKLAAGSKTQTVLPFTGLNDPDGVAVDNSGNVYVTDTDNNRVVKLEAESNNQVVLPFTDITAPWGIAVDEAGTVYVTEHNTNQVVKLLAGSTTSTVLPFTGLNTPLAVAVDSDRTVYVADRGNDRVVKLTSLEHHHHHH | 0.738 | 56 | 0.983454 | S | 0.777 | In | 0.76 | In |
| >7328bd34b7ba7026b708fbf3786ec418616fb266 |  |  |  |  |  |  |  |  |
| MVKYEELLKTLENGINSEEGEIRLVRKSQGRFKEEFNFDLSLGSKPLLTLKVFLGRKPYWQPWVEVFGVNPNLRNVFFGSEAERKLYEFLSEHFGRIFVEYFEDKETTYELQKGVPPALSRLGFELLKLGYTYFRDWYIPEGLMEGGHKIQAEKPKTEEAKKRHLENLKKEFEEFIGKCEDEGLIKKVKERYNFLEHEGSS | 0.8 | 93 | 0.830916 | S | 0.828 | S | 0.19 | In |
| >fb383a1be5cd9ad9e46949894ee827f22f1a3990 |  |  |  |  |  |  |  |  |
| GPGSMRVCRPGHVARHVPFQKTGCSTGREGSVEQRTERPTGAGSSKPTQNRQDYGTQDQRSMQMNTGTGHPALPPPPQATSAVPGRCETGNTAEGGLSFHKKKPSVSATNFLSKAAQARTEAATTGPDASAFRVVGKPVTGLSYTDLAGRISNRYITNLTTLVGHGLVKVESFKAGGTEVGTPFNKSGESVSALLYLRHS | 0.824 | 97 | 0.633414 | In | 0.563 | In | 2.64 | In |
| >0f021efffa1f3812632b3764314fbdce918150b4 |  |  |  |  |  |  |  |  |
| MSLSGQVAAARQETLVEEILDLSRQRQAGPLSPWFAARLEEQVEKGLFLSPEDLEATGARLVEELVEYRTRTQVSTAVIGMSGGVDSALTAALFKAAGWHVMGHTLPIEQDPTETDRGIEACAALGIEHRPLDLSGAYEAALAQLGELDPDLLSSDETPARTRRGNLRARLRMMTLYDQAHRLGGLVAGTDNFSELTAGFWTLHGDVGDLAPVQSLLKSWEVPWLARAYRVPEATWRAMPTDGLGIGGGDEAQIGATYLEWDILQFALAEALGDDPGLATRHLAFALRMDADRHAQEVLGTLIARMRATWHKRLNEGHHHHHH | 0.603 | 21 | 0.761667 | In | 0.542 | S | -1.29 | S |
| >0f9aef93567a1f1169107f43d2193f6ae33530fe |  |  |  |  |  |  |  |  |
| MKKQNDIPQPIRGDKGATVKIPRNIERDRQNPDMLVPPETDHGTVSNMKFSFSDTHNRLEKGGYAREVTVRELPISENLASVNMRLKPGAIRELHWHKEAEWAYMIYGSARVTIVDEKGRSFIDDVGEGDLWYFPSGLPHSIQALEEGAEFLLVFDDGSFSENSTFQLTDWLAHTPKEVIAANFGVTKEEISNLPGKEKYIFENQLPGSLKDDIVEGPNGEVPYPFTYRLLEQEPIESEGGKVYIADSTNFKVSKTIASALVTVEPGAMRELHWHPNTHEWQYYISGKARMTVFASDGHARTFNYQAGDVGYVPFAMGHYVENIGDEPLVFLEIFKDDHYADVSLNQWLAMLPETFVQAHLDLGKDFTDVLSKEKHPVVKKKCSK | 0.686 | 79 | 0.651908 | S | 0.618 | S | -0.33 | S |
| >3a3330d977bc3c624c01d496a2e68eef318ee292 |  |  |  |  |  |  |  |  |
| MSLDQRHPVNDEMRVTINVELDRIEKKYGVKIIYACESGSRGWGFASTNSDYDVRFIYVNHPSHYVRVDNEARDTIEEMVSKELDLAGWSITKTLQLAYKSNPTLLEWLNSPIVYRKVDRDYKLIRDAALKHFIPESSYMHYISMAKQTKMRWLSDEKVRMKKYFYSLRPLLAAMWVRESLEHPPMVFHDLLPLLTDPILYKRIQELVNDKVGATEQDLIDRCPILDQFIDFQLSREKPDFGKYERPDIYALTDLAWHFVDQYKIDTFAKLQGIERRKYEGHHHHHH | 0.556 | 62 | 0.613913 | In | 0.827 | In | -0.28 | S |
| >4ca0b62c8815f9370038746fe56e7d8ad056b7ab |  |  |  |  |  |  |  |  |
| MTSTGRFTLPSEENFAEKTKELAELWGADAIRNSDGTHLDEAVLALGKKIYNAYFPTRAHNEWITLHMDETPQVYLLTDRILAESDTVDIPLMESFFAEQLKPNRDADPHKYWEVVDRTTGEVVDSANWTLDADEDTVHVSGVAAWHEYTVSFLAYIIWDPVEMYNHLTNDWGDKEHEIPFDIYHPATRKFVFDTFEQWLKDSPQTDVVRFTTFFYQFTLLFDEKRREKVVDWFGCACTVSPRALDDFEAKYGYRLRPEDFVDGGAYNSAWRVPRKAQRDWIDFLSGFVRENVKQLADMSHAAGKEAMMFLGDQWIGTEPYKDGFDELGLDAVVGSIGDGTTTRMIADIPGVKYTEGRFLPYFFPDTFYEGNDPSIEGLDNWRKARRAILRSPISRMGYGGYLSLAAKFPKFVDTVTHIANEFRDIHDRTGGVAAEGELNVAILNSWGKMRSWMAFTVAHALPNKQTYSYYGILESLSGMRVNVRFISFDDVLAHGIDSDIDVIINGGPVDTAFTGGDVWTNPKLVETVRAWVRGGGAFVGVGEPSSAPRFQTGRFFQLADVIGVDEERYQTLSVDKYFPPVVPDHFITADVPVDPAAREAWEQAGYRIPLSGCGGGQSIKPLGGIDFGEPVLNTYPVNENVTLLRADGGQVQLATNDYGKGRGVYISGLPYSAANARLLERVLFYASHNEDKYAAWSSSNPECEVAHFPEQGLYCVINNTDQPQKTTVTLADGTTEDFDLPDSGIAWREALEHHHHHH | 0.561 | 27 | 0.672925 | In | 0.547 | S | -0.97 | S |
| >1a3e9add5d0201c6521bff075bda5475fd2ac5d8 |  |  |  |  |  |  |  |  |
| MAHHHHHHMGTLEAQTQGPGSMTSPRNCLRFTLLGCGSSPGVPRINGDWGKCDPKNPKNRRRRASLLVERYDAEGNNTVVVIDTGPDFRMQMIDSGVHMLDAAVYTHPHADHIHGIDDLRTYVVDNGRLMDVYANRLTRNRLYDTFGYCFETPVGSSYPPILSMHDIAPETPFSIEGAGGAIRFEPFSQVHGDIESLGFRIGSVVYCTDVSAFPEQSLQYIKDADVLIIGALQYRPHPSHFSLGEALEWIEKLSPKRAILTHMHVPLDYETVMRETPHHVEPGYDGLRFEVAV | 0.263 | 52 | 0.618617 | In | 0.821 | In | 0.24 | In |
| >014341b849b1c495146d70f647b8c0d00e470b45 |  |  |  |  |  |  |  |  |
| MTMQVEYLDLISQAKEIAETQFKAEPFSFDAIWKEVVKHFKISKQDEPNLISRFYQDFLEDPNFVYLGERNWKLRDFMKFDEWNKISQAMFVTKEIFEEGYEDLSNKKKENEEEVNDFIMGNDGDDNSTGDEIVQGLINDFRDDNQ | 0.529 | 98 | 0.969009 | S | 0.753 | S | -3.19 | S |
| >cc6fe39e5648b8bf8a56f13466b05a054431dabb |  |  |  |  |  |  |  |  |
| MSLSANNGKDDVKYAALTQKDLDALPVEKRASVLDELGFIHEYGLSVPMNRERALQYYKQACELGGNYGCYNVKYAYQYGDGVAKDSAQANKYAKKMNLDNLLIEQEYIDKFSQEIYMAKALADTDKSQRAAFISILIHALNNRPESDALFFSRIGFNQEKTFRLATLWSQDGDPQMDYQMGRLTLNDFSGRYADEPYQARPASLKWFRAAAEKGVVEAQSLLGGIYSGGEGDEWGIKPDIQEAQKWYGQAAKQGDSDAQIALGKIYYSGATGRTDYAKALALFTQVENDGTNSRSTMPLSWMYYNGLGTAPDCDKAWSYYKKASRYVGKKVEEKIFLSKCAADIQSRKNNADALPKVTLKKERIFSRGITAKPKECALIFQIGTDKIRNMANLHITLELKNADGMATEETLMIPPFGLNTLGIDMQNHDVDPLVTPYDLPLYTQDFCHGIGDIHFTLKSATATINGKNVDLLKADSVRFLDKEGHHHHHH | 0.292 | 67 | 0.753267 | In | 0.546 | S | 0.43 | In |
| >c8a48b0df095a4bc304a5f8027c358c55d2431c5 |  |  |  |  |  |  |  |  |
| SPSEGRCWETLKALRSSDKGRLCYYRDWLLRREDVLEECMSLPKLSSYSGWVVEHVLPHMQENQPLSETSPSSTSASALDQPSFVPKSPDASSAFSPASPATPNGTKGKDESQHTESMVLQSSRGIKVEDCVRMYELVHRMKGTEGLRLWQEEQERKVQALSEMASEQLKRFDEWKELKQHKEFQDLREVMEKSSREALGHQEKLKAEHRHRAKILNLKLREAEQQRVKQAEQERLRKEEGQIRLRALYALQEEMLQLSQQLDASEQHKALLKVDLAAFQTRGNQLCSLISGIIRASSESSYPTAESQAEAERALREMRDLLMNLGQEITRACEDKRRQDEEEAQVKLQEAQMQQGPEAHKEPPAPSQGPGGKQNEDLQVKVQDITMQWYQQLQDASMQCVLTFEGLTNSKDSQAKKIKMDLQKAATIPVSQISTIAGSKLKEIFDKIHSLLSGKPVQSGGRSVSVTLNPQGLDFVQYKLAEKFVKQGEEEVASHHEAAFPIAVVASGIWELHPRVGDLILAHLHKKCPYSVPFYPTFKEGMALEDYQRMLGYQVKDSKVEQQDNFLKRMSGMIRLYAAIIQLRWPYGNQQEIHPHGLNHGWRWLAQILNMEPLSDVTATLLFDFLEVCGNALMKQYQVQFWKMLILIKEDYFPRIEAITSSGQMGSFIRLKQFLEKCLQHKDIPVPKGFLTSSFWRS | 0.682 | 73 | 0.965264 | S | 0.658 | S | 0.39 | In |
| >8c59c9fc895cd68ce1193583de6e1582b30b2791 |  |  |  |  |  |  |  |  |
| METLRVSSKSRPNSVAGAIAAMLRTKGEVEVQAIGPQAVNQAVKAIAIARGYIAPDNLDLVVKPAFVKLELENEERTALKFSIKAHPLET | 0.723 | 81 | 0.864358 | S | 0.732 | S | 1.15 | In |
| >d049608e4ede6396dbbe39f19f41aec3d122afa1 |  |  |  |  |  |  |  |  |
| MATQGAWLRMTSSAKSMTKSTVTSKELGFLTSQLSGLRISYTPSDVINRISLPSFPGIQPIVARRICPFTGKKANRANKVSFSNHKTKKLQFVNLQYKRVWWEAGKRFVKLRLSTKALKTIEKNGLDAVAKKAGIDLRKK | 0.427 | 28 | 0.672544 | S | 0.788 | In | -2.04 | S |
| >b994f0b073235e2f98660a54736499035a1cbe09 |  |  |  |  |  |  |  |  |
| MSKVAFDLRFDASYKWVALGAYFGNDLSAYAGKDKNNKAIGDMAAMIAFKSAASGDTNFVEGLAFGVDFRLNHLLSAVPTGDKSTLPMGISAWVNYKYALTDSMWVKPYANFWGETNRKSIDASKTDKFFGVAYKVGATFSPAEKIEIDTYWSQGKLSWNKYEGTEGMISAPAFDAHNGTFVIGVKVIYLEHHHHHH | 0.468 | 60 | 0.753122 | In | 0.606 | S | 1.08 | In |
| >006f1c4fc5ea971e09bb387ec388a6d0dca3985c |  |  |  |  |  |  |  |  |
| GPLGSFKIYQQKSFEQKIESLKKEKDDQLSEGNQKEHFRQGQAEVIAYYPLQGEKVISSVRELINQDVKDKLESKDNLVFYYTEQEESGLKGVVNRNVTKQIYDLVAFKIEETEKTSLGKVHLTEDGQPFTLDQLFSDASKAKEQLIKELTSFIEDKKIEQDQSEQIVKNFSDQDLSAWNFDYKDSQIILYPSPVVENLEEIALPVSAFFDVIQSSYLLEKDAALYQSYFDKKHQKVVALTFDDGPNPATTPQVLETLAKYDIKATFFVLGKNVSGNEDLVKRIKSEGHVVGNHSWSHPILSQLSLDEAKKQITDTEDVLTKVLGSSSKLMRPPYGAITDDIRNSLDLSFIMWDVDSLDWKSKNEASILTEIQHQVANGSIVLMHDIHSPTVNALPRVIEYLKNQGYTFVTIPEMLNTRLKAHELYYSRDE | 0.659 | 94 | 0.917424 | S | 0.681 | S | -0.78 | S |
| >1353d074592974b5999038c988fd3f797e7fd4c3 |  |  |  |  |  |  |  |  |
| MSLVVLCVLLLSAAEWQLEPDYSRISFVSVKRAKMAEVQRFDRLSGQIDKQGVARIVVPLGTLDSGLALRDERMKDNFFETSRFPEATVESRLDMAGFDDLRVGQSRVEKLDFTLHLHGQQRRLKADVLVTRQGEGLVQVATLEPVLLKLLDFDLEEKLKPLKDMANIPSITPEVPVFAVLNFREVPPEQEGHHHHHH | 0.769 | 85 | 0.531223 | In | 0.626 | S | -0.69 | S |
| >e5204f1966ecb449bffa1588a946f79f7228abb0 |  |  |  |  |  |  |  |  |
| MAHHHHHHMTDIDIKTYSDDASLGKEAPTVESAHPIKGEKIAITEDKVYVLYFFNTFYRGADICNDEFTALSEEMADKAVFVAISTDADIAKTEKYLGKEIIDENTKKRLRLDPSHICYDEGKAISKSYAEVSNLSVMSCPMAFVVKDGKVAWRQQFLQTHTVNQSNFREQLSRVLAGEELESNGPRPKVEVEEEEAEGMDGDMSLF | 0.61 | 98 | 0.646444 | S | 0.598 | S | -1.91 | S |
| >05cf67f74c9c33d53bb3a04fa1aea46020b7c394 |  |  |  |  |  |  |  |  |
| MQSKAHALTFTVLPITQKTDQWSVKVSEAKNVKEFTRPHKGEYQVYSLGSQKYRGKSSYSGCAIVLEHHHHHH | 0.826 | 98 | 0.844027 | S | 0.549 | S | 0.32 | In |
| >7b025596d37350e319ff245cb1f77c45f1d6661b |  |  |  |  |  |  |  |  |
| MSGSLARAAARPNAPTLVDEATVDDFIAHSGKIVVLFFRGDAVRFPEAADLAVVLPELINAFPGRLVAAEVAAEAERGLMARFGVAVCPSLAVVQPERTLGVIAKIQDWSSYLAQIGAMLAEVDQPGEAELQS | 0.604 | 49 | 0.820553 | S | 0.614 | S | -1.14 | S |
| >c8ef9d0de6a827a352f46e5087648338a27206f5 |  |  |  |  |  |  |  |  |
| MSLSSKNQKLFVKATADLETLGKILKPRGLKVHADVVLQDVHLQAPPLRLAVPPQVLPDKRFVMRKDLDIIEEEKPAPTSRIPFELLWSVNIKTEKPVLISSNLLQSPVPVALDMQVQSDRKPQGKVMVQSFPFEFFRKKATVNNVDLIFHPDTVAPELSGKISYSNPEVNIRILLLGNTQRPIVNLESDPQLNQQQILSVLLFDKSLDELNEDEVNSTSEGHHHHHH | 0.65 | 95 | 0.905181 | In | 0.52 | S | 0.87 | In |
| >69ac83b9f8256751342d1a1a6c0f7170496c7087 |  |  |  |  |  |  |  |  |
| MGESIPLAAPVPVEQAVLETFFSHLGIFSYDKAKDNVEKEREANKSAGGSWLSLLAALAHLAAAEKVYHSLTYLGQKLGGQSFFSRKDSIRTIYTSLHNELKKVVAGRGAPGGTAPHVEELLPHLSEQLCFFVQARMEIADFYEKMYALSTQKFINTEELVSTLDTILRKYSSRFHHPILSPLESSFQLEVGVLSHLLKAQAQISEWKFLPSLVTLHNAHTKLQSWGQTFEKQRETKKHLFGGQSQKAVQPPHLFLWLMKLKTMLLAKFSFYFHEALSRQTTASEMKALTAKANPDLFGKISSFIRKYDAANVSLIFDNRGSESFQGHGYHHPHSYREAPKGVDQYPAVVSLPSDRPVMHWPNVIMIMTDRASDLNSLEKVVHFYDDKVQSTYFLTRPEPHFTIVVIFESKKSERDSHFISFLNELSLALKNPKVFASLKPGSKG | 0.488 | 75 | 0.624312 | In | 0.723 | S | 1.37 | In |
| >3ce1168a24275762c53f3088fdcfffc9c159fde4 |  |  |  |  |  |  |  |  |
| DQYSLVASLDNVRNLSTILKAIHFREHATCFATKNGIKVTVENAKCVQANAFIQAGIFQEFKVQEESVTFRINLTVLLDCLSIFGSSPMPGTLTALRMCYQGYGYPLMLFLEEGGVVTVCKINTQEPEETLDFDFCSTNVINKIILQSEGLREAFSELDMTSEVLQITMSPDKPYFRLSTFGNAGSSHLDYPKDSDLMEAFHCNQTQVNRYKISLLKPSTKALVLSCKVSIRTDNRGFLSLQYMIRNEDGQICFVEYYCCPDE | 0.654 | 40 | 0.585135 | In | 0.676 | In | -0.15 | S |
| >daf339f2b48a66a4cab336ccc44e15b6895a6dd3 |  |  |  |  |  |  |  |  |
| GMLFDTSPKDNRKDFFDREKEIEKLKGLRAPITLVLGLRRTGKSSIIKIGINELNLPYIYLDLRKFEERNYISYKDFLLELQKEINKLVKRLPSLLKALKNIQGIVIMGNEIKFNWNRKDRLSFANLLESFEQASKDNVIIVLDEAQELVKLRGVNLLPALAYAYDNLKRIKFIMSGSEMGLLYDYLRVEDPESPLFGRAFSTVELKPFSREEAIEFLRRGFQEADIDFKDYEVVYEKIGGIPGWLTYFGFIYLDNKNLDFAINQTLEYAKKLILKEFENFLHGREIARKRYLNIMRTLSKCGKWSDVKRALELEEGIEISDSEIYNYLTQLTKHSWIIKEGEKYCPSEPLISLAFS | 0.637 | 80 | 0.876018 | In | 0.517 | In | 0.64 | In |
| >cbfe76e0a3b61f6fc73b2826dd95b6308f2a8beb |  |  |  |  |  |  |  |  |
| MAIVVDDSVFSPSYVPKRLPHREQQLQQLDILLGNWLRNPGHHYPRATLLGRPGTGKTVTLRKLWELYKDKTTARFVYINGFIYRNFTAIIGEIARSLNIPFPRRGLSRDEFLALLVEHLRERDLYMFLVLDDAFNLAPDILSTFIRLGQEADKLGAFRIALVIVGHNDAVLNNLDPSTRGIMGKYVIRFSPYTKDQIFDILLDRAKAGLAEGSYSEDILQMIADITGAQTPLDTNRGDARLAIDILYRSAYAAQQNGRKHIAPEDVRKSSKEVLFGISEEVLIGLPLHEKLFLLAIVRSLKISHTPYITFGDAEESYKIVCEEYGERPRVHSQLWSYLNDLREKGIVETRQNKRGEGVRGRTTLISIGTEPLDTLEAVITKLIKEELR | 0.55 | 44 | 0.599678 | S | 0.712 | S | 0.61 | In |
| >40522d4e7fa9e7630cf2a1b6c2bdb4ce972c7a68 |  |  |  |  |  |  |  |  |
| MGVTYQVEMNAAIETVFRYVSEEDLMREWQCGFMENIYFHKLEGMKRKGATFVQRIHNGRKVEEYAGEIIAFHRPSFYGVRLESDYLTMEIFYRLIETEAGGTIVHFECIPTFNNWYTKAIRPFLHQSLRTMGRKQLEALKACLEQQWQGMPLESRVLEHHHHHH | 0.334 | 35 | 0.649027 | In | 0.625 | S | -0.62 | S |
| >0d645d8c8e694a07976988a49ea8f831102203c9 |  |  |  |  |  |  |  |  |
| MFMNVPEVTPEEAKKMLEEEKDKVVLLDVRTPPEHFQVRIPNSMLIPLDELRYAFQNLPKDKKYIVYCRIGERSAFATYFLRQMGYEAYNLAGGILIWPYEKESGAPAKS | 0.253 | 84 | 0.693505 | S | 0.579 | In | 0.22 | In |
| >cc9c3c1144e6174b1ed8fa17c38b858913ed63a0 |  |  |  |  |  |  |  |  |
| MKRRRRNSKLKFEETSDQSPTSTAEFSFSLTKIAVSQICQSIGYKATDASALNTLTLTTTKFLQSLAELASSFSNTANRTEVNLFDIVNGLQDIALSTSDCFPGGSTVHDIESQCLIKSAVLRNLSDFVTYAPEIPFAKPLPRRERDGSFGGDLDHVAVTRSVDVTSVPAWLPPFPDSSLCSDRCSKDNRSDHLWENSDSVIRREILPESLKSKSGGRLPVMRDKVRFKMEQRDWSSGGDTRLERSRDNNNGESGRDLEVKKKIREGYTYCAGEWPF | 0.325 | 69 | 0.83714 | In | 0.932 | In | 1.74 | In |
| >20d634ea1a3b27ad9a7abf218a0b8d475e59d50a |  |  |  |  |  |  |  |  |
| MPGKLRVHELAKQLGVTSKELLATLKDQGEFVKTASSTIEPPVVKKMKKHYESLGVTTEAPAASQEPKAKKPAAPKPAAPKPAATPQQAAKPAAPKPAAPKPAAEKKPAPKPAAKPVPKPGFSAAKAESSAPKPAAPKPAAPKPAAQSSTTATPGSMPRPQAKPAPKPGGRAPRVANNPFSSGPRPAPRPGGGNRSGNAPRPGGGPRPGGNRPQGGQGGPAERAPRPGGRGGQPRPQGGSRSQQSGGQERQGGGRRPSPAMMPTHPNPGQMPSRSNGSRNGRGGAGGQGGRPGFGGGRPGGGGSAGGRGGRRGGTAGAFGRPGGAPRKGRKSKRQKRNEYEAMQAPNVIGGVRLPDGGGATIRLARGASLSDFAEKINADAAALVQALFNLGEMVTATASVNEETLQLLGEEMNYKVEVVSPEDEDRELLESFDLQFGEDEG | 0.716 | 100 | 0.775444 | S | 0.82 | In | 2.98 | In |
| >4a8575e9aaed6de26dfb82778ec7db86d4ea2ccf |  |  |  |  |  |  |  |  |
| MELYLDTSDVVAVKALSRIFPLAGVTTNPSIIAAGKKPLDVVLPQLHEAMGGQGRLFAQVMATTAEGMVNDALKLRSIIADIVVKVPVTAEGLAAIKMLKAEGIPTLGTAVYGAAQGLLSALAGAEYVAPYVNRIDAQGGSGIQTVTDLHQLLKMHAPQAKVLAASFKTPRQALDCLLAGCESITLPLDVAQQMISYPAVDAAVAKFEQDWQGAFGRTSI | 0.434 | 63 | 0.832457 | In | 0.742 | S | 0.08 | In |
| >6280e2c65bc460cff7c400229d2af4ab0d966cef |  |  |  |  |  |  |  |  |
| MIINNLKLIREKKKISQSELAALLEVSRQTINGIEKNKYNPSLQLALKIAYYLNTPLEDIFQWQPE | 0.385 | 73 | 0.893696 | In | 0.626 | S | 1.55 | In |
| >9dcb812fb2160719afb0884c21faece65689d5b8 |  |  |  |  |  |  |  |  |
| MDPFRPSFRGQSPIHPSQCQAVRMPGCWPQASKPLDPALGRGAPAGRGHVFGKPEEPSTQRGPAQRESVGLVSMFRGLGIETVSKTPLKREMLPSGRGILGRGLSANLVRKDREELSPTFWDPKVLAAGDSKMAETSVGWSRTLGRGSSDASLLPLGRAAGGISREVDKPPCTFSTPSRGPPQLSSPPALPQSPLHSPDRPLVLTVEHKEKELIVKQGSKGTPQSLGLNLVKIQCHNEAVYQYHVTFSPNVECKSMRFGMLKDHQAVTGNVTAFDGSILYLPVKLQQVLELKSQRKTDSAEISIKIQMTKILEPCSDLCIPFYNVVFRRVMKLLDMKLVGRNFYDPTSAMVLQQHRLQIWPGYAASIRRTDGGLFLLADVSHKVIRNDCVLDVMHAIYQQNKEHFQDECTKLLVGNIVITRYNNRTYRIDDVDWNKTPKDSFTMSDGKEITFLEYYSKNYGITVKEEDQPLLIHRPSERQDNHGMLLKGEILLLPELSFMTGIPEKMKKDFRAMKDLAQQINLSPKQHHSALECLLQRIAKNEAATNELMRWGLRLQKDVHKIEGRVLPMERINLKNTSFITSQELNWVKEVTRDPSILTIPMHFWALFYPKRAMDQARELVNMLEKIAGPIGMRMSPPAWVELKDDRIETYVRTIQSTLGAEGKIQMVVCIIMGPRDDLYGAIKKLCCVQSPVPSQVVNVRTIGQPTRLRSVAQKILLQINCKLGGELWGVDIPLKQLMVIGMDVYHDPSRGMRSVVGFVASINLTLTKWYSRVVFQMPHQEIVDSLKLCLVGSLKKFYEVNHCLPEKIVVYRDGVSDGQLKTVANYEIPQLQKCFEAFENYQPKMVVFVVQKKISTNLYLAAPQNFVTPTPGTVVDHTITSCEWVDFYLLAHHVRQGCGIPTHYVCVLNTANLSPDHMQRLTFKLCHMYWNWPGTIRVPAPCKYAHKLAFLSGHILHHEPAIQLCENLFFL | 0.476 | 54 | 0.723205 | In | 0.958 | In | 1.76 | In |
| >9296c8f1a37933609105eb55a228176a344b62d9 |  |  |  |  |  |  |  |  |
| MESNQTNQLVNKFLISLPEGKILGYVTDINVEVSGDQYYFILRIKTLENISRGEFHPGMFSSEKKIKIKPSDIVNVGPDVIIIGGGKVPPLREIERLGQIVEDYNALVKELEKRENEIKKLKEEKEKLERELEELKKKIRRLEVIEDDFDHLKEQLIKQEGQLEMAREYIKLLEGVRHDIDNIKANIETLLSGYIEDVVRKIVNDELNARGLKKSPI | 0.735 | 100 | 0.798361 | S | 0.755 | S | -0.29 | S |
| >2472524140a21cd4d16180bfc3dd5cc1e52f0184 |  |  |  |  |  |  |  |  |
| MSLALGKFDIKSSFIAKEIDNKTLEIVPGVTEKAYRFIDKDGKKQYVSLMEIRWTSSRVGVKAGTPNNKDSYGMQSVIMQAKASIASGDNVVGGVNGDFYYTVTGEPIGIVYKNGKAVKANHAAEWNFFGVLEDGTPIIGDGKKYNEVKDSLQEALGGNAILVREGRIYQTPSIGGYREPRTAVGIKKDGTIFFVTVDGRQEGHSAGISMPDLAQLMIDLGAVEALNLDGGGSSTFVSRKLGSSDLILKNKPSGGIMRNVGNSWLVINKEESDGIISLAHIEPFHKTFQVGARVQFKATGIDKGGKIISIPQGTVDWSLSDNSYGTIDSNGVFLSNGKVGQVQVQTSYNDEIIGRTWVEIIKPEENNKWNIENKTRIAGVNRFETAVSIAKTMYKDGCENVIITNGYNYTDEISASILGNNLKAPVLLVGNSNEQDKIALDYIKQYMNKDGKVFIVGGTGAVGEKFVDKLKVLGIRNIDRMDGKDRYETNIKTNNKLTIEKGSPIIIASGEGFADALSIASIAQVKNYPIILTSKNNLSKDAKEYIKKIEPSKIHIVGGEGVVSKEVKNSLMELTSLSNNNIVRLQGSDRYNTNISVLKYFDIGGDTLAIASGTTFPDSLVGSVYASSKNAPILLVNNNMNLSEQNKYIHSKKYKSCIIFGGTGVVRDGLFEGHHHHHH | 0.559 | 69 | 0.638951 | In | 0.644 | S | 2.14 | In |
| >80fced02117bd10f82f54204802c54c0ae705972 |  |  |  |  |  |  |  |  |
| MAEITASLVKELRERTGAGMMDCKKALTEANGDIELAIENMRKSGAIKAAKKAGNVAADGVIKTKIDGNYGIILEVNCQTDFVAKDAGFQAFADKVLDAAVAGKITDVEVLKAQFEEERVALVAKIGENINIRRVAALEGDVLGSYQHGARIGVLVAAKGADEELVKHIAMHVAASKPEFIKPEDVSAEVVEKEYQVQLDIAMQSGKPKEIAEKMVEGRMKKFTGEVSLTGQPFVMEPSKTVGQLLKEHNAEVTGFIRFEVGEGIEKVETDFAAEVAAMSKQSHMSKEKFERTKPHVNVGTIGHVDHGKTTLTAAITTVLAKTYGGAARAFDQIDNAPEEKARGITINTSHVEYDTPTRHYAHVDCPGHADYVKNMITGAAQMDGAILVVAATDGPMPQTREHILLGRQVGVPYIIVFLNKCDMVDDEELLELVEMEVRELLSQYDFPGDDTPIVRGSALKALEGDAEWEAKILELAGFLDSYIPEPERAIDKPFLLPIEDVFSISGRGTVVTGRVERGIIKVGEEVEIVGIKETQKSTCTGVEMFRKLLDEGRAGENVGVLLRGIKREEIERGQVLAKPGTIKPHTKFESEVYILSKDEGGRHTPFFKGYRPQFYFRTTDVTGTIELPEGVEMVMPGDNIKMVVTLIHPIAMDDGLRFAIREGGRTVGAGVVAKVLS | 0.729 | 93 | 0.924228 | S | 0.643 | S | -0.8 | S |
| >3faf26c2acce147b738907af68855977b238fca5 |  |  |  |  |  |  |  |  |
| MSLDETAVTQAAIDTYPKQTIELYVPASPGGQSDAGARVLARHISKYLDSDIVIVNQDTAGGALAFENVYRAKADGYKLLYYHQALHTSYAVGQYDYSALEMTPIGTFAGINQVFVTRADAPWDSLEELVEEARQHPYEILYGGQIGGTTHFMGEQLGQVADVDIKVLDVGGESDRMTALLGNQIDFVSTGIGNALNYIESGDFKALAVLSEERDELAPDIPTALEQGYDVQFPIIHTLYGPPNLPEEIIHKWNAAAEQLAEDEEYVQDLVTTFQRHIQMDHNETLTFNQEELKKAEGIAFELFQEDEGHHHHHH | 0.524 | 70 | 0.740098 | In | 0.708 | S | -2.99 | S |
| >09cafcece43a6569eb57d4615445ec8090497c22 |  |  |  |  |  |  |  |  |
| MSLSQSLVQKQTQKLVMTQDLRQSIELLPLSTLELSDRINSELVENPMLEEEYASERNRTPDLYSRDDLKRKEKNDFLKNSDVSWQDHFSLDKAGGAGTDASDRNQKYIESSPEKSSLSEHLLWQLRLSNLKPDEISIGEILISMLNDHGFIPIPIPDLCTEMKLNEKKVRKVLDQIHRLDPIGIGAKDVQETLLIQAKILKPEDLNLHILIRDHIKDLEKLDYKSISKKMEIQLESVESLASEIKKLEPYPATLYTPNKPDYVIPDVIVREVDGEFDIYINDEWIPRLKVNKEYKNILKNAEGHHHHHH | 0.564 | 96 | 0.6826 | In | 0.838 | In | -0.55 | S |
| >0f5ae360d5cc2bbe4fd65271790f280639749fec |  |  |  |  |  |  |  |  |
| MTEETITIDSISNGILNNLLTTLIQDIVARETTQQQLLKTRYPDLRSYYFDPNGSLDINGLQKQQESSQYIHCENCGRDVSANRLAAHLQRCLSRGARR | 0.257 | 15 | 0.812606 | S | 0.604 | In | 0.83 | In |
| >5eaadb9ed06e540ff3b63c22688ccdf8f88d69bf |  |  |  |  |  |  |  |  |
| MHHHHHHSSGVDLGTENLYFQSMGECSQKGPVPFSHCLPTEKLQRCEKIGEGVFGEVFQTIADHTPVAIKIIAIEGPDLVNGSHQKTFEEILPEIIISKELSLLSGEVCNRTEGFIGLNSVHCVQGSYPPLLLKAWDHYNSTKGSANDRPDFFKDDQLFIVLEFEFGGIDLEQMRTKLSSLATAKSILHQLTASLAVAEASLRFEHRDLHWGNVLLKKTSLKKLHYTLNGKSSTIPSCGLQVSIIDYTLSRLERDGIVVFCDVSMDEDLFTGDGDYQFDIYRLMKKENNNRWGEYHPYSNVLWLHYLTDKMLKQMTFKTKCNTPAMKQIKRKIQEFHRTMLNFSSATDLLCQHSLFK | 0.588 | 71 | 0.74623 | S | 0.699 | In | 0.36 | In |
| >b32f990e772140e776702ae84c8de9083364ea4c |  |  |  |  |  |  |  |  |
| GASVSPDETMLAFGEDVLSRRVYHIYFKDLASGDMITDVLENTEGRVVWGNDNRHVFYIAKDLKTLLGYQVYRHELGTPQSRDILVYEEQDDSYYLSLGKTLDESQIVLFHENTTTSEVSVLDANDPLGLFKPVLPREEGHEYSVSKLGDTYYILTNWQATNFRLMKVAIKDAADKSKWQEVVAHNPNARIEDDLVLKDYLIIQTRENGLTRIKVMPFNGQKPFELSFDEPAYVLGLDVNA | 0.716 | 53 | 0.622309 | In | 0.776 | S | -1.3 | S |
| >b32bea4276eee2dab717acf1d3a5789ae06b704a |  |  |  |  |  |  |  |  |
| GSVDMTHFSQQDNFSVAARVLGALFYYAPESAEAAPLVAVLTSDGWETQWPLPEASLAPLVTAFQTQCEETHAQAWQRLFVGPWALPSPPWGSVWLDRESVLFGDSTLALRQWMREKGIQFEMKQNEPEDHFGSLLLMAAWLAENGRQTECEELLAWHLFPWSTRFLDVFIEKAEHPFYRALGELARLTLAQWQSQLLIPVAVKPLFR | 0.465 | 46 | 0.559261 | In | 0.536 | S | -1.19 | S |
| >4c938228708eeb8ed9c1f0ee49c610a629fb06a8 |  |  |  |  |  |  |  |  |
| MPKKFEEILKEVENDLIEMAELCAEQTENAVKAFIESDRELAKQVRKRDTTIDLMEMKIEEKCIKAIALYQPVSGDLRELMTAIKISSKLEKVGDNASKICKILLKSDVEGNRKNELLIVMKDYLINMLKNAMIAFKTRDESLARDVYNMDKRLDDLYEQLYRSMISKIIENPKNLTLYTEIIFAGKYLERSGNIVASIGDRIVYMITGERIKEEEIEEELKKEKDIEKNIDQIND | 0.364 | 100 | 0.53431 | In | 0.547 | S | -1.38 | S |
| >5aad5cf805e9ded43d3f60c1e32b731eaf7c40be |  |  |  |  |  |  |  |  |
| MRNYIQGIDHVQVAAPVGCEEEARAFYGETIGMEEIPKPEELKKRGGCWFKCGNQEIHIGVEQNFNPAKRAHPAFYVLKIDEFKQELIKQGIEVIDDHARPDVIRFYVSDPFGNRIEFMENKN | 0.167 | 95 | 0.744823 | In | 0.558 | S | -0.66 | S |
| >8503bd467511a3cfcd217b77d5c9c652a5ad4514 |  |  |  |  |  |  |  |  |
| MERPILGKYIIKGKIILETGLRIGGQELGVNIGGIDNPVIRNPLTGEPYIPGSSVKGKMRSLMERLLNLDISGNKVRRHECEERECKVCRVFGSTSKEGNNIPSRLLVRDAFLTEDSKTKLLSMETDLPYTEWKTENALDRVTCKADPRSFERIPAGAEFEFEIIYTAENEKHIKEDLENIATALELLEDDYLGGNGSRGYGKVKFSIEKVIFKSADYYKGEGTPVEKEVKGGVEGFKKAIPEIVKG | 0.752 | 97 | 0.524989 | S | 0.806 | S | 0.97 | In |
| >3e073c81de30bfa79482fe66e07ac0e7209696c6 |  |  |  |  |  |  |  |  |
| MSLKRNTYIDFLAYYGIGSAHPGGFTLTKQLLAQLPFRHGANVLEIGCGTGKTAAYMVRNFGYKVTAVEKNEIMIQKAKDRWSSEGIDIQLIEGKAEQLPCLHDSFEFVLGESILAFTEKERVISECYRVLQKDGKLVVIEMIINAHIGREEEEKIAQLYGMNELLTESEWIQLFQKANFRRVTIAGGGTIAETISSYIEEPEWNVSQFIPNELYEAWVQHENVRLMYQHILGHRIFICEKEGHHHHHH | 0.744 | 48 | 0.630177 | In | 0.664 | S | -0.7 | S |
| >457ebf4bb9ab1312887c3c4e3be98b20feb8b19e |  |  |  |  |  |  |  |  |
| MAHHHHHHMMRVRSLQLQQRRGANKSFPDTAAVDSSAACAHSGLLSPDGTASSAVTPTSTLPSSVGPLSGYALSSPEAHLLGAVPLLAADWQGSGGPVAAAPLPGSSSSPPAVPLALPPSPEPGTTLAKTGHNGVQPLTKPVPHTSAAAAAAAAPASSATSFSPLLAAALVLAKERRYARLAEEAERAAQAKKLRQDSLRNRTLTRTAPNKESDVPRVPPHRLAPLSGKHPGDEVSSMLPLPADSARLQSQMRPAKLALTPPPPSLRWREVNGGGLNAWNLSSDDGDAA | 0.617 | 95 | 0.608513 | S | 0.923 | In | 3.24 | In |
| >7c13822f20a98fa6ec69ae1f2e947a5d4e181a54 |  |  |  |  |  |  |  |  |
| KSSHTLKTANSYTDVTVSNSTKKAIRESNQYTDHKMHQLENRLDKLEKRLLKLLASSAALNSLF | 0.799 | 79 | 0.676771 | S | 0.634 | In | 0.24 | In |
| >5be45eb9ed3f823a4a293ce555d7a15ca8a66487 |  |  |  |  |  |  |  |  |
| MNGRGFLIYNGGEKMKQKMIIYDTPAGPYPARVRIALAEKNMLSSVQFVRINLWKGEHKKPEFLAKNYSGTVPVLELDDGTLIAECTAITEYIDALDGTPTLTGKTPLEKGVIHMMNKRAELELLDPVSVYFHHATPGLGPEVELYQNKEWGLRQRDKALHGMHYFDTVLRERPYVAGDSFSMADITVIAGLIFAAIVKLQVPEECEALRAWYKRMQQRPSVKKLLEIRSKSS | 0.475 | 59 | 0.622397 | In | 0.646 | S | 0.9 | In |
| >ada3cabb07d951c6e16c7ae55e7a2d0844456877 |  |  |  |  |  |  |  |  |
| MTMITDSLEFHIDPYKEFGATVELLSFLPSDFFPSVRDLLDTAAALYRDALESPEHCSPHHTALRQAILCWGDLMTLATWVGTNLEDPASRDLVVSYVNTNVGLKFRQLLWFHISCLTFGRETVLEYLVSFGVWIRTPPAYRPPNAPILSTLPETTV | 0.404 | 30 | 0.743297 | In | 0.525 | S | -0.86 | S |
| >96984038815098cff31a905dbd063b362d901e49 |  |  |  |  |  |  |  |  |
| MVRLNRVLLKDAGNVIDKTLSEILVCPLSKQPLRFCEKTKSLVSDTIGVSFPIKDGIPCLVPKDGKILEEEGDASKA | 0.236 | 100 | 0.510963 | In | 0.641 | S | 1.39 | In |
| >b267a8549547bc0005e9523a0c703fb129a9a0ca |  |  |  |  |  |  |  |  |
| MSKSVFVGELTWKEYEARVAAGDCVLMLPVGALEQHGHHMCMNVDVLLPTAVCKRVAERIGALVMPGLQYGYKSQQKSGGGNHFPGTTSLDGATLTGTVQDIIRELARHGARRLVLMNGHYENSMFIVEGIDLALRELRYAGIQDFKVVVLSYFDFVKDPAVIQQLYPEGFLGWDIEHGGVFETSLMLALYPDLVDLDRVVDHPPATFPPYDVFPVDPARTPAPGTLSSAKTASREKGELILEVCVQGIADAIREEFPPT | 0.674 | 56 | 0.601028 | S | 0.659 | S | -0.52 | S |
| >e49f1b267ef19792071876c8116acc06645ba2d7 |  |  |  |  |  |  |  |  |
| MAKYYATVAGLPNITVEDRKLPFTSLQFLQELRPILSRTDSKLFDLLLWEQENQFLLRYLEDSEKAKAEESRPTLFSYDTLDGIIAAYREKRVMPRMDSLPEHFRTFLSEKLTEMFREEEEGDVGQMSLSDTEAEEGKARLPISDEDRLAMYYYEYAMKCGNDFLEEWFALNLHIKNILAAITCRKLGWNPINYIVGTGEIEDKLRTSRARDFDLGEELPYLSTLFSVGEETDITKRERLLDVIRWEWLEESVFNRVFTVERLLCYYLELAIIERWVKLDEKTGEETFRRIVKTLKHESAESLDEFRRNQKK | 0.503 | 78 | 0.656849 | In | 0.693 | In | -1.79 | S |
| >715ea2603d6a18f0755eb213f3aed1720aef3d77 |  |  |  |  |  |  |  |  |
| MENKIQELTDKIYREGVEKGNEEARRLIANAQEEAKKIVEDAHKEAESIIASSRKSADELTENTKSELKLFAGQAVNALKSEIATMVTDKIVTAPVKEFAQNKDFLNAFIVALASKWSVDEPIIISTSDAESLKKYFAANAKALLDKGVTIEQVNGIKALFSVSPADGSYKVNFGEEEFMNYFKAFLRPQLVEMLF | 0.328 | 99 | 0.834279 | S | 0.764 | S | -0.67 | S |
| >3d1f107f6ce0cc846edda1cf25b6d5fcecf4717f |  |  |  |  |  |  |  |  |
| MAKEGEHSGAKEVKLTKPKISLSDLTFVIYVTTREKLSSSTISCEEIPLKKCGAELECGSNDRFHIQVENLSHMGISKSRMAGVKIECEVIYKEDSEDEAVVRIVNAERPLGTNFGWLNNDLLAPLAHRGLTAEIQLSFNSELLDKIDLQIFHRGEGRYFSQDDTLGYLQCFFPSKI | 0.567 | 85 | 0.839768 | In | 0.645 | S | -0.11 | S |
| >81c0cc47eac9989347e0ce9cd93257972b501a3e |  |  |  |  |  |  |  |  |
| MVDKKHEEKLVEFEGMYPELEKATDDLEKKVKLEDTDYDDLLKKPEKPFNEETELADWNLVLKATDFAARRHRHQKRKDNATPYINHPIGVMYILTNEAKVYDPVTLAAAVLHDVVEDTKTTPEEIQQEFGNEVFQVVKECTDDKNLAKAERKKLQIENYGKHSHQAKLVHLADKLYNLRDLERKAPIGWDKKRVNEYFKWSREVIGEMKGTNESLEYALDDVINRHLA | 0.743 | 100 | 0.911375 | S | 0.711 | S | -1.74 | S |
| >06168b752bb43abaff0e6b422b29e3d5b14be7a9 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMAYNQEDSKRLSDKYKKEGHFDKLKREILSNPWNNTEENSESFEQALRKRVASTVKEMVNEDEELIFKNRGLTSALIESQLVKDNYLKLGSKMEGDNGDGEKKFDLDVYVRSKLQDPKLLEMIKGQLQETLNSYEEEANGST | 0.761 | 97 | 0.56065 | S | 0.722 | S | 0.18 | In |
| >819fd35229a33c426f90c4ff5c93c4bf56ef7f82 |  |  |  |  |  |  |  |  |
| MSLTDLQQTYYRQVKNPNPVFTPREGAGTLKFCEKLMEKAVGFTSRFDFAIHVAHARSKGLRRRMPPVLRRRAIDALLQGLCFHYDPLANRVQCSITTLAIECGLATESAAGKLSITRATRALTFLSELGLITYQTEYDPLIGCYIPTDITFTPALFAALDVSEDAVAAARRSRVEWENRLRKKQGLDTLGMDELIAKAWRFVRERFRSYQTELKSRGIKRARARRDAGRERQDIVTLVKRQLTREISEGRFTANREAVKREVERRVKERMILSRNRNYSRLATASPEGHHHHHH | 0.579 | 80 | 0.615249 | In | 0.908 | In | -0.47 | S |
| >62ae4a799a85fa17d96ded685a344ececde48762 |  |  |  |  |  |  |  |  |
| SKIETSLRDSKSKLLQTSVSVHPDAIEKTIEDIMELKKINPDVNPQLGISLQACLLQIVGYRNLIADVEKLRREAYDSDNPQHEEMLLKLWKFLKPNTPLESRISKQWCEIGFQGDDPKTDFRGMGLLGLYNLQYFAERDATAAQQVLSDSLHPKCRDITKEEISKFSKAEWEKKRMDKAIGYSFAIVGINITDLAYNLLVSGALKTHFYNIAPEAPTLSHFQQTFCYLMHEFHKFWIEEDPMDIMEFNRVREKFRKRIIKQLQNPDMALCPHFAASEGLINM | 0.733 | 78 | 0.776112 | In | 0.708 | In | 0.03 | In |
| >2323255b04a12917f88e177bc8a6a3b2c40a5afe |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHMKPTMMTYINEEEEMCRVILADFQTNAEKLESLVKNGAKEWLILATGSSLNAAQSAKYYIENLADVRITIEEPFNHLYYEKLSSHLDLVIGISQSGQSTSTISALERVKKEASVPVVALTSDVTSEIAEFADITLDIGSGKERVGYVTKGFTATVLTLMLTGLHFAYKTVQIDETRFNNEISAFSRAIDAIPATIAETEAFYERWQEEFATAPKFTAIGYGPTVGTCKEFETKFSETVRVPSQGLDLEAFMHGPYLEVNPQHRIFFLETASAVTERLVLLRDYESKYTPFTYTVKFGKGEDDRTLVIPTDLDEYQAPFLMILPFQILAHHIAELKGNKLTERIYTDFGVAMKSKTKPGDYA | 0.378 | 74 | 0.845102 | In | 0.525 | S | -1.09 | S |
| >99eb248019ecb11ff665d144a309d289f936ad9f |  |  |  |  |  |  |  |  |
| MDIHISQPLMEIIVRKVAEDGVDDLKNWLLAGREGKDAVMSRKTLAFVRIDMDNHFMWWSMPHSKYYSFFQKCLAANNPYAKFVEKNKGLAYESTTGYYQMRCRWNVLTTNACSLT | 0.249 | 25 | 0.609757 | S | 0.769 | In | 1.09 | In |
| >25f9cf9a4aa3515ffba35bfdcf1746e61e0a59e7 |  |  |  |  |  |  |  |  |
| MSEEHIAVTRFREYLRVNTEQPNPDYAACRDFLFKYADELGIARRSFETVPGAIFVIMTIPGSQPELPSIMLYSHTDVVPTFREHWTHDPYSAFKDEDGNIFARGAQDMKCVGVQQMEALRNLFAQGIRQWKRTIHLVWGPDEEIFGINGMKGFAKTDEFKKLNLGFSLDEGMPSDDDVYKVFYAERVAWWVKVTFPGNPGHGSQFMENTAMEKLERYLASARKFRDEQKALLESNPDLTIGDVTTLNVNIVNGGVQFNVIPEKFEAFVDIRLTPSIDFNEMRNKLDQWVKDAGEGVTYEFSKHSDLKLVTPHTRDDPFWVAFEDSLKQEKCKFTTEVLIGSTDSRIVREAGVRAINFSPLINTPLLAHAHNEFLNEKVFLRGIEIYQTLINNVANVNE | 0.666 | 44 | 0.621581 | In | 0.847 | In | -0.46 | S |
| >0ca9e5a517a4d22f10e93573bf9054b8b9cac76a |  |  |  |  |  |  |  |  |
| MKLDEIARLAGVSRTTASYVINGKAKQYRVSDKTVEKVMAVVREHNYHPNAVAAGLRLQHHHHHH | 0.382 | 71 | 0.887861 | S | 0.635 | In | -0.72 | S |
| >c486d14ff71d8c86a3031bd123c38e16a0447606 |  |  |  |  |  |  |  |  |
| DCHCFYKDSSFPSWPEMFSLDSFRKDRAQHRQRQCKLPPPRLPPMCVNPTPGGTISRASRDLLKEFPQPKNLLNSVIGRALGISHAKDKLVYVHTNGPKKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQLFKGWGLLGPRNELFDAAKYRVLADRFGSPADSWWRPEPTMPPTSWRQLNPESIRPGGPGGLSRSLGREEEEDEEEELEEGTIDVTDFLSMTQQDSHAPLRDSRGSSFEMTDDDSAIRALTQFPLPKNLLAKVIQIATSSSTAKNLMQFHTVGTKTKLSTLTLLWPCPMTFVAKGRRKAEAENKAAALACKKLKSLGLVDRNNEPLTHAMYNLASLRELGETQRRPCTIQVPEPILRKIETFLNHYPVESSWIAPELRLQSDDILPLGKDSGPLSDPITGKPYVPLLEAEEVRLSQSLLELWRRRGPVWQEAPQLPVDPHRDTILNAIEQHPVVVISGDTGCGKTTRIPQLLLERYVTEGRGARCNVIITQPRRISAVSVAQRVSHELGPSLRRNVGFQVRLESKPPSRGGALLFCTVGILLRKLQSNPSLEGVSHVIVDEVHERDVNTDFLLILLKGLQRLNPALRLVLMSATGDNERFSRYFGGCPVIKVPGFMYPVKEHYLEDILAKLGKHQYLHRHRHHESEDECALDLDLVTDLVLHIDARGEPGGILCFLPGWQEIKGVQQRLQEALGMHESKYLILPVHSNIPMMDQKAIFQQPPVGVRKIVLATNIAETSITINDIVHVVDSGLHKEERYDLKTKVSCLETVWVSRANVIQRRGRAGRCQSGFAYHLFPRSRLEKMVPFQVPEILRTPLENLVLQAKIHMPEKTAVEFLSKAVDSPNIKAVDEAVILLQEIGVLDQREYLTTLGQRLAHISTDPRLAKAIVLAAIFRCLHPLLVVVSCLTRDPFSSSLQNRAEVDKVKALLSHDSGSDHLAFVRAVAGWEEVLRWQDRSSRENYLEENLLYAPSLRFIHGLIKQFSENIYEAFLVGKPSDCTLASAQCNEYSEEEELVKGVLMAGLYPNLIQVRQGKVTRQGKFKPNSVTYRTKSGNILLHKSTINREATRLRSRWLTYFMAVKSNGSVFVRDSSQVHPLAVLLLTDGDVHIRDDGRRATISLSDSDLLRLEGDSRTVRLLKELRRALGRMVERSLRSELAALPPSVQEEHGQLLALLAELLRGPCGSFDVRKTADD | 0.64 | 62 | 0.950652 | S | 0.668 | S | 1.3 | In |
| >663f99b008bd6641941b77fd95b3feccab82f627 |  |  |  |  |  |  |  |  |
| AHHHHHHGSAIFLAEQGLQIYLKAILIKYADLRLKTHSLRELLMSVGKVFEMEERVAEFIKSNRIMLRELEDAYIDARYEPKLYSRKDAEDIIYFVKQVMTFVEELEDEFERKVDQRTYMNSREKLIKELIERGRKQYLMIKNYHLYLPSIKKACEKIFGNCEVYVFGSVLTGKFTAGSDVDLLIKVPNPPKSLRAKAEVEAKIEELAGLPDYHPFEFHIVDEEGFKWYVEKLKIKLKRVS | 0.717 | 97 | 0.717114 | In | 0.732 | S | -0.36 | S |
| >ff29ba1cd8963316bd6310d63dcd981bd26249b7 |  |  |  |  |  |  |  |  |
| MSKPSLLLYIHGFNSSPLSMKANLMREYCAQHRPDIKVIVPQLPCFPEQAAQLLLDIVEQYKDDYNIGLVGSSLGGYMSTWLNAKYGFKAVVVNPAVKPYELLVDYLGEQTNPYTRETYTLEACHIDELKALDVQSIASPHSFWLLQQTEDEVLDYRQAVDKFAKAKQTVEQGGDHSFVGFERYPAKIIEFLELLEHHHHHH | 0.634 | 84 | 0.800039 | In | 0.737 | S | -0.93 | S |
| >6602b651293246b6851b107747c636479213ea1b |  |  |  |  |  |  |  |  |
| GSMSFIPVAEDSDFPIQNLPYGVFSTQSNPKPRIGVAIGDQILDLSVIKHLFTGPALSKHQHVFDETTLNNFMGLGQAAWKEARASLQNLLSASQARLRDDKELRQRAFTSQASATMHLPATIGDYTDFYSSRQHATNVGIMFRGKENALLPNWLHLPVGYHGRASSIVVSGTPIRRPMGQMRPDNSKPPVYGACRLLDMELEMAFFVGPGNRFGEPIPISKAHEHIFGMVLMNDWSARDIQQWEYVPLGPFLGKSFGTTISPWVVPMDALMPFVVPNPKQDPKPLPYLCHSQPYTFDINLSVSLKGEGMSQAATICRSNFKHMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGSDPESFGSMLELSWKGTKAIDVGQGQTRTFLLDGDEVIITGHCQGDGYRVGFGQCAGKVLPALSPAGS | 0.515 | 37 | 0.699939 | In | 0.681 | S | 1.86 | In |
| >98d727a39a8e72a9b2d138887441763f87ebaed8 |  |  |  |  |  |  |  |  |
| GMVEQRNRGRPAVPDAVVRESIVGAAQRLLSSGGAAAMTMEGVASEAGIAKKTLYRFASGRADLIGLLVESWIAPIFPGFEADPQDAAAALERIVYDIAQAVLSREAVSLFRMLASDADLRNRFLPAYNANGIERSRRELARWLDQQASAGRLPLPIPAERVADLLLSAVIAEPLRQITLGLREPLPAWDIAPRVADAVRLIAPGRER | 0.446 | 37 | 0.747079 | S | 0.607 | In | 0.81 | In |
| >25aee1631031314be4198c42bab5164a8a2cea88 |  |  |  |  |  |  |  |  |
| MSLKNMADLSYVNIFTRDIVAMSAFYQQVFGFQEIESIRSPIFRGLDTGKSCIGFNAHEAYELMQLAQFSETSGIKFLLNFDVDTKEAVDKLVPVAIAAGATLIKAPYETYYHWYQAVLLDPERNVFRINNVLEGHHHHHH | 0.796 | 39 | 0.780981 | In | 0.707 | S | -0.8 | S |
| >eb51f7e44b2ddd3262e379a00ef39f397944dd91 |  |  |  |  |  |  |  |  |
| MSLAADTIKIGLGVPMTGDYAPYSEWQGARCMADMINAKGGVNGMKIEVLIQDSGADTQTAISLAQKFLDEGAVMLGTIPFSDTMIPVAQVAQGYGVSIFQPQSTQVEMHAGIVDNFFTGVSPDPFTATAAANHALSLGVKNVVLMTSDEGGSWSARTPLWFGDVVEAGGGKVLSKLNFSFGTSDWSPQIAEMKALGEQIDAVYISSIMPDIAVLIRQMRSAGIEAYVVGSDGFDDPSLDAIGTDDPAILDKVFFATLAPSHADSAVVRFIAECKEMGIDVPGLFPATGADTVKAVAWAVEQSGSTDPATLAETLRNADSIPVMSVDAISFKETRTYAQRTIPVIGFEGGKRVLISNEIPANTPTDWNEGHHHHHH | 0.503 | 55 | 0.597811 | In | 0.513 | In | -0.55 | S |
| >d50fe7181df78b389d424427c543b068d2757682 |  |  |  |  |  |  |  |  |
| MGHHHHHHSLRDLKEENRIVIWPSYFFSPTRSKGRRLARIPYKIKTEELVSTLRELGLDPIVIENKKYPRDRKINFLIAVKKVKSKNYTLKIIHNALMGTRQTNPNKSN | 0.155 | 82 | 0.838494 | S | 0.585 | In | -1.08 | S |
| >bcfcb365e9d548dd32a2732b0c57ba34cea07858 |  |  |  |  |  |  |  |  |
| MAVNGKTLIRRFNDYCPEWLAETGDPVGLHIGTLDKPIENVMVTLDVRPEVVAEAIEKQVDLIIAKHPPIFRPVKRLTTDNFQEKMYADLLKHDIAVYAAHTNMDIIDNGLNDWFCELLGIKQTTFLTKTHTVPYKKLAVFVPIDEAPQMREALGLAGAGSQGDYSKTSYSLIGTGRFTPTQGANPTIGEIGQESVVQEAKIEVIFPETKQEQVLAAMLQAHPYEEPAYDVYTIENQSKEFGLGRVGVLDKPVRFSYFVQQVKEAFQLDGLRVIAKDDTKMIQRVAICGGSGEKFYHDALRKQADVYITGDVYYHTAHDMIAEDLPVIDPGHYIEALCKPKLVELMNQWKQENEWAVSIFESEANTNPFRFKLEHHHHHH | 0.653 | 85 | 0.627902 | S | 0.522 | S | -1.12 | S |
| >162dd4d7b96b8f8701243132e4672aec1cfca878 |  |  |  |  |  |  |  |  |
| MASDSGNQGTLCTLEFAVQMTCQSCVDAVRKSLQGVAGVQDVEVHLEDQMVLVHTTLPSQEVQALLEGTGRQAVLKGMGSGQLQN | 0.709 | 90 | 0.728988 | S | 0.711 | S | -1.07 | S |
| >8ce5ad8ce95269b395cdb8603abae816273396bd |  |  |  |  |  |  |  |  |
| MSLDQQTTTAQTNANFLQIRFTTMSKKIAVIGECMIELSEKGADVKRGFGGDTLNTSVYIARQVDPAALTVHYVTALGTDSFSQQMLDAWRGENVDTSLTQRMENRLPGLYYIETDSTGERTFYYWRNEAAAKFWLESEQSAAICEELANFDYLYLSGISLAILSPTSREKLLSLLRECRANGGKVIFDNNYRPRLWASKEETQQVYQQMLECTDIAFLTLDDEDALWGQQPVEDVIARTHNAGVKEVVVKRGADSCLVSIAGEGLVDVPAVKLPKEKVIDTTAAGDSFSAGYLAVRLTGGIAEDAAKRGHLTASTVIQYRGAIIPREAMPAEGHHHHHH | 0.693 | 30 | 0.695272 | In | 0.72 | In | -0.69 | S |
| >5134a56023253684ab285f74acdb2a449d089b0b |  |  |  |  |  |  |  |  |
| MSLRVLVLGSGVIGTTSAYYLARAGFEVTVVDRQPAAAMETSFANAGQVSPGYASPWAAPGVPLKAIKWLLQRHAPLAIKATADIDQYLWMAQMLRNCTASRYAVNKERMVRLSEYSRDCLDELRAETGIAYEGRSLGTTQLFRTQAQLDGAAKDIAVLKESGVPFELLDREGIARVEPALANVTDILAGALRLPNDQTGDCQIFTTRLAEMASKLGVEFRFGQDIQRIDFAGDRINGVWIDGKLETADRYVLALGSYSPQLLKPLGIKAPVYPLKGYSLTVPITNPAMAPTSTILDETYKVAITRFDNRIRVGGMAEIAGFDLSLNPRRRETLEMIVNDLYPQGGDLSQASFWTGLRPTTPDGTPIVGATPFRNLFLNTGHGTLGWTMACGSGRLLADLMAKKKPQISAEGLDISRYGNPQESAKHVNPAPAHEGHHHHHH | 0.564 | 19 | 0.85135 | In | 0.59 | S | 1.03 | In |
| >ad941148b110784a57926aafac9b55ed4b6f8ddb |  |  |  |  |  |  |  |  |
| MVRKDSESSCSSDGSHTHEDYTLANDAVVTKYQVAAEITNAVLKEVLANIKEGAIAGDLCDLGDKLILEKTGKLYKKEKNFTKGIAMPTCISIDNCICHYTPLKSEAPVVLKNGQVVKVDLGTHIDGLIATAAHTVVVGASKDNKVTGKLADLLRGTHDALEIAIRSLRPDTENTTITKNIDKTAAEFGLTPIENMLSHQLERNEIDGEKKIIQNSGEKQKGEIEKIKIDKHEAYAIDILFSTGKGQPKDMDTRTTVFRKNEQVSYQLKMKASRVFFSDVNKVHGPMPFSLRSFEEEVKAKMGVVECEKYGLLVPYPVLYEKEGELVAQFKATVLVMPNGLLKIAGLPFDSDVYQSDLTVKDPELQAVLKSALKPKKKKEAKKDEPAAKKA | 0.515 | 100 | 0.559413 | In | 0.628 | S | 0.44 | In |
| >93990a1fad916e86aa47d0ca9bdfd7c386d5e8c9 |  |  |  |  |  |  |  |  |
| GMTIKALFWDIGGVLLTNGWDREQRADVAQRFGLDTDDFTERHRLAAPELELGRMTLAEYLEQVVFYQPRDFTPEDFRAVMEEQSQPRPEVLALARDLGQRYRMYSLNNEGRDLNEYRIRTFGLGEFLLAFFTSSALGVMKPNPAMYRLGLTLAQVRPEEAVMVDDRLQNVQAARAVGMHAVQCVDAAQLREELAALGVR | 0.683 | 44 | 0.800408 | In | 0.667 | S | -1.16 | S |
| >bd06902c5f165542af325c823b616e17cf452137 |  |  |  |  |  |  |  |  |
| MEYAKGRIGRVFTVRIDHGDDLILELIKLAELEKIESAVFMLLGALKEGKLVAGPKENRRPPEPVWTGFSDAREILGIGDIFQEDGEPKIHLHAGTARGDDIKLGCLRGESEVFMVVEVFIFELEGISARRIMDPEQGFAPVSFIQIPDNELEHHHHHH | 0.639 | 93 | 0.765599 | S | 0.903 | S | -1.63 | S |
| >cec230eacc94a0bd7602a38bc74b85696327d2e5 |  |  |  |  |  |  |  |  |
| MAFAIANYIRAETPEAFDKVIEAFTGRAGLVERMEGFRSLQVLANRDRLEVVVITVWESREHFERWVESREFEEAHKRARRRRLEGTTSEGVEYEVLDFTCRG | 0.533 | 99 | 0.63962 | In | 0.705 | S | -1.51 | S |
| >e4df04b16240455bc35cf4a49f6a355dcf822ba9 |  |  |  |  |  |  |  |  |
| MSDGTILTIKRPITVRAVVTPTWKEEAEREISNGIANADQQLAQLEQEGQTVVDQVRRQSANPLDPRVQEQVANIQQQVAGKRSELEEQKRNLLQQQAQVRELEMDQIVEQGQLESSCEIKVGDNLVEKMQVAIVVRDGVIQSIEEA | 0.672 | 71 | 0.857155 | In | 0.628 | S | -1.89 | S |
| >bc525ff22fde1b3524d0be0e5cd9c30071e218b2 |  |  |  |  |  |  |  |  |
| MRWISGLDLVAHQMTARKKNSMALNEADTCRVYVTPKLKESGWENNPSAITEQYTFTDGRVQFKGSKVQRGEQKRADYLLKYTRDFPIAVVEAKPENSPVGQGMQQAKDYAEILGLKFAYSTNGHEILEFDYTTGEEQLLSRFPTPDELFKRLCGDEGIKDEDLDTLLSPYHHVSGYSPRYYQQIAINRAVQSVLQGKKRSLITMATGTGKTVVAFQISWKLWSARWNRTGDYRKPRILFLADRNVLVDDPKDKTFTPFGDARHKIEGGKVVKSREIYFAIYQSIASDERRPGLYKEFPQDFFDLIIIDECHRGSARDNSNWREILEYFEPAFQIGMTATPLREDNRDTYRYFGNPIYTYSLRQGIDDGFLAPYRVHRVISEVDAAGWRPSKGDVDRFGREIPDGEYQTKDFERVIALKARTDAFAKHLTDFMKRTDRFAKTIVFCVDQEHADEMRRALNNLNSDLSRKHPDYVARVTSEEGKIGKGHLSRFQELETSTPVILTTSQLLTTGVDAPTCKNVVLARVVNSMSEFKQIVGRGTRLREDYGKLWFNIIDYTGSATQNFADPDFDGYPEIEDEVVIDEDGEEVV | 0.577 | 44 | 0.62142 | S | 0.65 | In | 0.06 | In |
| >8fd5b8413e30f6c17db1a2d3a039c533b90228cb |  |  |  |  |  |  |  |  |
| PHMKTTKIKFYYKDDIFALMLKGDTTYKELRSKIAPRIDTDNFKLQTKLFDGSGEEIKTDSQVSNIIQAKLKISVHDI | 0.579 | 91 | 0.766926 | S | 0.586 | S | 0.41 | In |
| >9e454d2b2ce074cc77d570ac6fddb0063ea2d178 |  |  |  |  |  |  |  |  |
| SAASVEDEFEDAPDVEPLEPTLKNIIEQKSLKWIFVGGKGGVGKTTCSCSLAVQLAAVRESVLTRFEEPTRSTLSPSSCWSPTALPKSDLNHSHGSNTHLFYTRAQTHCLSIWFSANALIDAAPVIHNECWARFKGTVHPNKVHFYSPSSACKHL | 0.533 | 96 | 0.557563 | In | 0.762 | In | 1.39 | In |
| >2a0fdb33ff916bdb8a6864526986bbe36301d330 |  |  |  |  |  |  |  |  |
| MGSKLKFAHLHQHTQFSLLDGAAKLQDLLKWVKETTPEDPALAMTDHGNLFGAVEFYKKATAMGVKPIIGYEAYVAAESRFDRKRGKGLDGGYFHLTLLAKDFTGYQNLVRLASRAYLEGFYEKPRIDREILREHAQGLIALSGCLGAEIPQFILQDRLDLAEARLNEDLSIFGDRFFIEIQNHGLPEQKKVNQVLKEFARKYGLGMVATNDGHYVRKEDARAHEVLLAIQSKTTLDDPERWRFPCDEFYVKTPEEMRAMLPEAEWGDEPFDNTVEIARMCDVDLPIGDKMVYRIPRFPLPEGRTEAQYLRELTFLGLLRRYPDRITEAFYREVLRLLGTMPPHGDERALAEALARVEEKAWEELRKRLPPLEGVREWTAEAILHRALYELSVIERMGFPGYFLIVQDYINWARGHGVSVGPGRGSAAGSLVAYAVGITNIDPLRFGLLFERFLNPERVSMPDIDTDFSDRERDRVIQYVRERYGEDKVAQIGTFGSLASKAALKDVARVYGIPHKKAEELAKLIPVQFGKPKPLQEAIQVVPELRAEMEKDERIRQVIEVAMRLEGLNRHASVHAAGVVIAAEPLTDLVPLMRDQEGRPVTQYDMGAVEALGLLKMDFLGLRTLTFLDEARRIVKESKGVELDYDRLPLDDPKTFELLSRGETKGVFQLESGGMTATVRGLKPRRLEDIIALVSLYRPGPMEHIPTYIRRHHGQEPVSYAEFPHAEKYLRPILDETYGIPVYQEQIMQIASQVAGYSLGEADLLRRAMGKKRVEEMQKHRERFVRGAKERGVPEEEANRLFDMLEAFANYGFNKSHAAAYSLLSYQTAYVKAHYPVEFMAALLSVERHDSDKVAEYIRDARALGIPVLPPDVNRSGFDFKVVGEEILFGLSAVKNVGEMAARAILEERERGGPFKSLGDFLKRLPEQVVNKRALESLVKAGALDAFGDRARLLASLEPLLRWAAETRERGRSGLVGLFAEVEEPPLVEASPLDEITMLRYEKEALGIYVSGHPVLRYPGLREVASCTIEELSEFVRELPGKPKVLLSGMVEEVVRKPTRSGGMMARFTLSDETGALEVVVFGRAYEGVSPKLKEDIPLLVLAEVEKGEELRVLAQAVWTLEEVLEAPKALEVEVDHALLDEKGVARLKSLLDEHPGSLPVYLRVLGPFGEALFALREVRVGEEALGLLEAEGYRAYLVPDREVFLQGNGGGPKEEVVPF | 0.605 | 75 | 0.982943 | S | 0.682 | S | -0.44 | S |
| >e191cf3781f439a7f616b88fc3d007d585eccdcd |  |  |  |  |  |  |  |  |
| MKIKAISIDIDGTITYPNRMIHEKALEAIRRAESLGIPIMLVTGNTVQFAEAASILIGTSGPVVAEDGGAISYKKKRIFLASMDEEWILWNEIRKRFPNARTSYTMPDRRAGLVIMRETINVETVREIINELNLNLVAVDSGFAIHVKKPWINKGSGIEKASEFLGIKPKEVAHVGDGENDLDAFKVVGYKVAVAQAPKILKENADYVTKKEYGEGGAEAIYHILEKFGYL | 0.458 | 74 | 0.588455 | In | 0.795 | S | 0.61 | In |
| >f89f8d5f142667974fa8dac641460d2a331e39e3 |  |  |  |  |  |  |  |  |
| MSLTTLSLEEEKRFEELCKMAFNFARNNECENLKIMIEAGLNVNLKTHKGDSLLMLAAYNNSYESAKMLLEKGAKVDEKNDRGQTPLAGVCFKGYLPMCELLVKYGANIDENNGLGMTPYTFAIMFGRKDVAEFLLKKSKNNFLKKISLKILKFIKKFEGHHHHHH | 0.748 | 99 | 0.552239 | In | 0.625 | In | 1.54 | In |
| >00709024230f2bd67a783971649b5106ce0e450f |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHENLYFQGMKIAVLGTGTVGRTMAGALADLGHEVTIGTRDPKATLARAEPDAMGAPPFSQWLPEHPHVHLAAFADVAAGAELVVNATEGASSIAALTAAGAENLAGKILVDIANPLDFSHGMPPTLNPVNTDSLGEQIQRTFPEAKVVKTLNTMNASLMVDPGRAAGGDHSVFVSGNDAAAKAEVATLLKSLGHQDVIDLGDITTARGAEMLLPVWIRLWGALGTANFNFKIAR | 0.402 | 75 | 0.649682 | S | 0.799 | S | 0.09 | In |
| >161f17e4cc947328174a43828d32a0883a9fd398 |  |  |  |  |  |  |  |  |
| MTSAPTVSVITISFNDLDGLQRTVKSVRAQRYRGRIEHIVIDGGSGDDVVAYLSGCEPGFAYWQSEPDGGRYDAMNQGIAHASGDLLWFLHSADRFSGPDVVAQAVEALSGKGPVSELWGFGMDRLVGLDRVRGPIPFSLRKFLAGKQVVPHQASFFGSSLVAKIGGYDLDFGIAADQEFILRAALVCEPVTIRCVLCEFDTTGVGSHREPSAVFGDLRRMGDLHRRYPFGGRRISHAYLRGREFYAYNSRFWENVFTRMSK | 0.44 | 24 | 0.877908 | In | 0.973 | In | 1.4 | In |
| >467a524122c5e0cfa4247117f2b1dfe31dc31f77 |  |  |  |  |  |  |  |  |
| RENLYFQGMTEVNLNIYSPRWGRHETYIVELHKDYMEISMGAVTIKATYSENQDPEWSEETLQDIMNNDSVYPPEITQNLFQHAWLEWRKGALDNDEVTRELELVAQWVNKVTEAKPNSDFWRKYF | 0.824 | 48 | 0.658842 | S | 0.812 | S | -1.88 | S |
| >66f55075741d1287d9c8d2f2f92962ca6b764d23 |  |  |  |  |  |  |  |  |
| MWNGREYMSEPASPEKKVIIIAGPNGAGKTTFAEEFLPQEAQCLTFINADLIAAGLAPFEPEQAAFRAGRLMLEEIYNHAQRGQNFAFETTLSGRSYARLIPTWQAQSYIVKLFFLQLLSPELAIARVAQRVRAGGHHVPEAIIRRRFAAGLHNLETLYKLIVDEWVCYDNSGNEPVLINKGGKLLEHHHHHH | 0.636 | 28 | 0.767911 | In | 0.643 | S | 0.45 | In |
| >4341ef5b7343c77f23f23b45b09ca8faa750a840 |  |  |  |  |  |  |  |  |
| FTGVQGRVIGYDILRSPEVDKAKPLFTETQWDGSELPIYDAKPLQDALVEYFGTEQDRRHYPAPGSFIVCANKGVTAERPKNDADMKPGQGYGVWSAIAISFAKDPTKDSSMFVEDAGVWETPNEDELLEYLEGRRKAMAKSIAECGQDAHASFESSWIGFAYTMMEPGQIGNAITVAPYVSLPIDSIPGGSILTPDKDMEIMENLTMPEWLEKMGYKSLSANNALKY | 0.689 | 79 | 0.627674 | In | 0.742 | S | -0.49 | S |
| >34d6f7998606e6ed7984f2c760035eb1648d5445 |  |  |  |  |  |  |  |  |
| GPSRMRHERVVIIKNMFHPMDFEDDPLVLNEIREDLRVECSKFGQIRKLLLFDRHPDGVASVSFRDPEEADYCIQTLDGRWFGGRQITAQAWDGTTDYQ | 0.81 | 73 | 0.538866 | S | 0.558 | In | -1.28 | S |
| >2c9194f0ce9573c874ff697ef7f1b1c81244c0d1 |  |  |  |  |  |  |  |  |
| MSIYKEPPPGMFVVPDTVDMTKIHALITGPFDTPYEGGFFLFVFRCPPDYPIHPPRVKLMTTGNNTVRFNPNFYRNGKVCLSILGTWTGPAWSPAQSISSVLISIQSLMTENPYHNEPGFEQERHPGDSKNYNECIRHETIRVAVCDMMEGKCPCPEPLRGVMEKSFLEYYDFYEVACKDRLHLQGQTMQDPFGEKRGHFDYQSLLMRLGLIRQKVLERLHNENAEMDSDSSSSGTETDLHGSLRV | 0.472 | 73 | 0.537962 | S | 0.724 | In | 0.76 | In |
| >ee95dfdb86142b5b7ed4387bd36bb5a78e7fdad0 |  |  |  |  |  |  |  |  |
| SANHLPFFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALSVAHGRKAHHYTIERELNGTYAIAGGRTHASPADLCHYHSQESDGLVCLLKKPFNRPQGVQPKTGPFEDLKENLIREYVKQTWNLQGQALEQAIISQKPQLEKLIATTAHEKMPWFHGKISREESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGKLSIPEGKKFDTLWQLVEHYSYKADGLLRVLTVPCQKI | 0.586 | 61 | 0.678424 | In | 0.586 | In | 1.39 | In |
| >aa4264c983c5955568491d5dedd0e3d63a76529e |  |  |  |  |  |  |  |  |
| MFEQRVNSDVLTVSTVNSQDQVTQKPLRDSVKQALKNYFAQLNGQDVNDLYELVLAEVEQPLLDMVMQYTRGNATRAALMMGINRGTLRKKLKKYGMN | 0.233 | 47 | 0.785488 | S | 0.574 | In | 1.26 | In |
| >22c8d1fcf94a8124dd905deeeac1438cd889d47c |  |  |  |  |  |  |  |  |
| MASGWANDDAVNEQINSTIEDAIARARGEIPRGESLYECEECGAPIPQARREAIPGVRLCIHCQQEKDLQKPAYTGYNRRGSKDSQLR | 0.56 | 87 | 0.947493 | S | 0.634 | In | 0.41 | In |
| >3744f0e1828d1063e7060bc6416a9a56d7fd4091 |  |  |  |  |  |  |  |  |
| MLLHNGPMKLAEALIERADLQKRAAQLEERLVQNMQVQEGEVPAEDPRELLNELLTVSSALEVLLPRIHRANLSATLPSGQTLTDALTRRDLLDARLKALRRAATAAAERQTRYSNSELRMVAVIPPSELQKLADVMAKERRELEVQIQQANWQTDLPGSGALEHHHHHH | 0.674 | 40 | 0.916014 | S | 0.651 | S | -0.67 | S |
| >0426b479daddaeac08d327645f24dd919d1000a8 |  |  |  |  |  |  |  |  |
| MNVELFKKFSEKVEEIIEAGRILHSRGWVPATSGNISAKVSEEYIAITASGKHKGKLTPEDILLIDYEGRPVGGGKPSAETLLHTTVYKLFPEVNAVVHTHSPNATVISIVEKKDFVELEDYELLKAFPDIHTHEVKIKIPIFPNEQNIPLLAKEVENYFKTSEDKYGFLIRGHGLYTWGRSMEEALIHTEALEFIFECELKLLSFHS | 0.679 | 98 | 0.946517 | S | 0.847 | S | -0.69 | S |
| >b1b6a108b6fa3131c19f3e10ca3cbd6b72569f5c |  |  |  |  |  |  |  |  |
| MAHHHHHHMADLCLGEDFSEELTCAVCLDSWKDPVELMPCGHIFCKACATGLKECPVCRDPIRSTKVPNRTLVNMALQIQVKCRRCQWRGTREQGMSHVCGASGSGPCAPPTTTPSTMRPPPAPASSSSAAYDYRAPVSSACASYGGYTAPPNLEDFWTSGAPVQPATTPAHPRVIEPTGPHPWTLYGLDQSEYDQIVSLFVFFDDNESGNLEPNEVTRLARWLNFANTPQDVKRIFDDMDVEGSGKLSLGEFLTWLRYNKPNPQALYGLTQSQYNTIMMQFHTYDTNQDGCLEMNEFSRLVQNLGDVRDAVTAQRLFQMIDQDRDGVISLHEFLRFRSGKH | 0.696 | 54 | 0.799491 | In | 0.694 | In | 0.46 | In |
| >86b6d1f2ef022bc90900329d54534591dd7a4986 |  |  |  |  |  |  |  |  |
| MREYNNPSDFKSFHDFVASYMKTYSRRLEIGTFRHHKSCMRKFKEYCEGLQFHELTEDFLRDYLIYMKKTLCNADSTAQRNLSTIKIYVSAAIKKGYMENDPFKDFGVKRLEHHHHHH | 0.537 | 62 | 0.764011 | S | 0.722 | In | 0.41 | In |
| >5dfd1cd6955e24990a198a5677443f575d1e659f |  |  |  |  |  |  |  |  |
| MVDDDDRILWDCGSPLYDSYELVSLTHIIERHFMSLPSLAGAGKVCCSRRPSDLEEKANRGANTVVDLCCSSDSTTGKLLCGAFGTKWWKRKQNTEAVVDNYNNKKKNMFCRILSKIRISTTRSGSSKM | 0.589 | 53 | 0.761248 | In | 0.698 | In | 1.98 | In |
| >a5753b424d123e38e161cfe7cac6cfe7f20b7fb3 |  |  |  |  |  |  |  |  |
| MAQYPEQLNGIFQALADPTRRAVLGRLSRGPATVSELAKPFDMALPSFMKHIHFLEDSGWIRTHKQGRVRTCAIEKEPFTAVEAWLAEQQELWESRTDRLEQFVTEHTVTAHAKATPQ | 0.397 | 57 | 0.557967 | In | 0.561 | In | -0.49 | S |
| >2e72d9435b917edff5e386abbbffff7fca123d93 |  |  |  |  |  |  |  |  |
| MAHHHHHHMGKLQVCICAARNLHDSQVFGLPDPYCRVRMGDHEYKTKVINNSLNPVWNETFRFQVADESTAQLCVELWNKNIISDDLMGTYSLSLGHMTRGVVNDEWYLLGHSKTNSELHLRVLACDFGINPSPSDVWKVTTDINNDPALGAGKKPPLAAAPVTISSNVNNTPINPNIGPAVVPAAVLMQPQSFPQAAGPFPHQPMYFSPPPAPVGYYPQQPMYYPPQPPVMQQEQLHSQFKAPYTGVVPLQMVSMMNPKDHNFHY | 0.427 | 95 | 0.754073 | In | 0.636 | S | 1.71 | In |
| >241d673a3534daf172ccbe4a381b389da0f3a250 |  |  |  |  |  |  |  |  |
| MSLTTHSHHDNVEKQFGSQANAYLHSAVHAAGRDLARLAQRLSDFSHASVLDMGCGAGHASFVAAQHANSVVAYDLSASMLEVVAGAAEERHLSNITLRQGYAEKLPFEDASFEVVISRYSAHHWHDVGQALREVNRVLKPGGVLIIMDVMSPGHPVRDIWLQTVEALRDTSHVRNYSSGEWLAMVNNAMLVTNTVITDRLSLEFRSWVTRMRTPAPLVEAIRLYQASAPVEVKRYFELQDDGSFSSDTIMLEAHKAVEGHHHHHH | 0.7 | 36 | 0.796411 | In | 0.503 | In | -0.3 | S |
| >db697cc83efbe57044b549e28508e7f04e37c782 |  |  |  |  |  |  |  |  |
| MSLQDTFKIAIFTDTHIGYDEQDAITEKDSFRAFKECVQNAHIQNADIILHAGDFFNERNPSRYAVIKTMKILDEFVIGQGNPPEILYSEGLSSDPNWLNPNINIKIPFFCMHGNHDAPNGLGSTSPIQLLSVSKYLNFFKPVDIKETIELQPIVLKRGTIRVVVYGLGYIFEEKFKEVVMGKKLKLIAPEEGEFERTYTILMIHQNMSSYDHDIGVMATRLSDAIWSETNPHNVDLVIWGHEHENLIQRKKYGNIYVTQPGSTVYTQFRKKNAMQRSMAILTISQNPDFDKFEEIKLESPRTFIYDKIEIDNKGLGFENDKLNYIKEQIDDKLLEFMDKDGKTIPKRQRPIMRIDVESTLSPSSLNLRGLVDEYKELVANPTKMFRYVVKKANSGTKQSEKAEKQTSYISEQEHIKIEDILSQKISPSDLNFISFDSLKDSLMEYINSDNMSKSKAFENNINAVFNERINYIIEQSKNKQKEVYDANKAKEFILNQKEGHHHHHH | 0.465 | 76 | 0.715632 | In | 0.545 | In | 0.38 | In |
| >6d8f1f1eb4fb5ca5f7a4ee9c9608ed9a9817a84d |  |  |  |  |  |  |  |  |
| MAVLSSADRASNEKKVKSSYFDLPPMEMSVAFPQATPASTFPPCTSDYYHFNDLLTPEEQAIRKKVRECMEKEVAPIMTEYWEKAEFPFHITPKLGAMGVAGGSIKGYGCPGLSITANAIATAEIARVDASCSTFILVHSSLGMLTIALCGSEAQKEKYLPSLAQLNTVACWALTEPDNGSDASGLGTTATKVEGGWKINGQKRWIGNSTFADLLIIFARNTTTNQINGFIVKKDAPGLKATKIPNKIGLRMVQNGDILLQNVFVPDEDRLPGVNSFQDTSKVLAVSRVMVAWQPIGISMGIYDMCHRYLKERKQFGAPLAAFQLNQQKLVQMLGNVQAMFLMGWRLCKLYETGQMTPGQASLGKAWISSKARETASLGRELLGGNGILADFLVAKAFCDLEPIYTYEGTYDINTLVTGREVTGIASFKPATRSRLDDDGKLEHHHHHH | 0.514 | 45 | 0.563152 | In | 0.539 | In | 1.18 | In |
| >7a0a254bc9eb9ade6b4b9b69bbe9e6922cadd5e8 |  |  |  |  |  |  |  |  |
| MTGSLNRHSLLNGVKKMRIILCDTNEVVTNLWQESIPHAYIQNDKYLCIHHGHLQSLMDSMRKGDAIHHGHSYAIVSPGNSYGYLGGGFDKALYNYFGGKPFETWFRNQLGGRYHTVGSATVVDLQRCLEEKTIECRDGIRYIIHVPTVVAPSAPIFNPQNPLKTGFEPVFNAMWNALMHSPKDIDGLIIPGLCTGYAGVPPIISCKSMAFALRLYMAGDHISKELKNVLIMYYLQYPFEPFFPESCKIECQKLGIDIEMLKSFNVEKDAIELLIPRRILTLDL | 0.257 | 37 | 0.807684 | In | 0.679 | S | 1.21 | In |
| >1ef21a9ba5e1668c003a65388a3bfa5b70f6f9d4 |  |  |  |  |  |  |  |  |
| GETDADVYEVEDILADRVNKNGINEYYIKWAGYDWYDNTWEPEQNLFGAEKVLKKWKKRKK | 0.878 | 89 | 0.948291 | S | 0.533 | In | -1.04 | S |
| >7bb7a4545cd924c66f7d1519f50da30d0fe1becd |  |  |  |  |  |  |  |  |
| MSHHKKRVYPQAQLQYGQNATPLQQPAQFMPPQDPAAAGMSYGQMGMPPQGAVPSMGQQQFLTPAQEQLHQQIDQATTSMNDMHLHNVPLVDPNAYMQPQVPVQMGTPLQQQQQPMAAPAYGQPSAAMGQNMRPMNQLYPIDLLTELPPPITDLTLPPPPLVIPPERMLVPSELSNASPDYIRSTLNAVPKNSSLLKKSKLPFGLVIRPYQHLYDDIDPPPLNEDGLIVRCRRCRSYMNPFVTFIEQGRRWRCNFCRLANDVPMQMDQSDPNDPKSRYDRNEIKCAVMEYMAPKEYTLRQPPPATYCFLIDVSQSSIKSGLLATTINTLLQNLDSIPNHDERTRISILCVDNAIHYFKIPLDSENNEESADQINMMDIADLEEPFLPRPNSMVVSLKACRQNIETLLTKIPQIFQSNLITNFALGPALKSAYHLIGGVGGKIIVVSGTLPNLGIGKLQRRNESGVVNTSKETAQLLSCQDSFYKNFTIDCSKVQITVDLFLASEDYMDVASLSNLSRFTAGQTHFYPGFSGKNPNDIVKFSTEFAKHISMDFCMETVMRARGSTGLRMSRFYGHFFNRSSDLCAFSTMPRDQSYLFEVNVDESIMADYCYVQVAVLLSLNNSQRRIRIITLAMPTTESLAEVYASADQLAIASFYNSKAVEKALNSSLDDARVLINKSVQDILATYKKEIVVSNTAGGAPLRLCANLRMFPLLMHSLTKHMAFRSGIVPSDHRASALNNLESLPLKYLIKNIYPDVYSLHDMADEAGLPVQTEDGEATGTIVLPQPINATSSLFERYGLYLIDNGNELFLWMGGDAVPALVFDVFGTQDIFDIPIGKQEIPVVENSEFNQRVRNIINQLRNHDDVITYQSLYIVRGASLSEPVNHASAREVATLRLWASSTLVEDKILNNESYREFLQIMKARISK | 0.305 | 28 | 0.681469 | In | 0.987 | In | 0.99 | In |
| >d06dfa2d3aacd76f7c747ad1a0c919d44f502354 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMFYLSDIEEEASAGAEPTYNFWEVLLFSNTQENLVTVVGELHTLTDRVVHYKIEPESREVTATTLPSLLALLLEKRNQARRLYRDVLSMKMSELDWDIDDLFTQLQEELTRTDDTLSMYPRRRFYH | 0.729 | 47 | 0.613881 | S | 0.568 | S | -1.88 | S |
| >9e403ae1acc57ccbe39a0f79ff43d6519621d173 |  |  |  |  |  |  |  |  |
| MPIIKEPIDFINKPESEAKKWGKEEEKRWFTKLNNLEEVAVNQLKNKEYKTKIDNFSTDILFSSLTAIEIMKEDENRNLFDVERIREALLKNTLDRDAIGYVNFTPKELGINFSIRDVELDRDISDETLDKVRQQIINQEYTKFSFISLGLNDNSINESVPVIVKTRVPTTFDYGVLNDKETVSLLLNQGFSIIPESAIITTIKGKDYILIEGSLSQELDFYNKGSEAWGAENYGDYISKLSHEQLGALEGYLHSDYKAINSYLRNNRVPNNDELNKKIELISSALSVKPIPQTLIAYRRVDGIPFDLPSDFSFDKKENGEIIADKQKLNEFIDKWTGKEIENLSFSSTSLKSTPSSFSKSRFIFRLRLSEGAIGAFIYGFSGFQDEQEILLNKNSTFKIFRITPITSIINRVTKMTQVVIDAEGIQNKEI | 0.407 | 62 | 0.537153 | In | 0.756 | In | 0.41 | In |
| >628efb00110d912d281e5ce9cb6d3ed6671d9a9d |  |  |  |  |  |  |  |  |
| MAEPGIDKLFGMVDSKYRLTVVVAKRAQQLLRHGFKNTVLEPEERPKMQTLEGLFDDPNAETWAMKELLTGRLVFGENLVPEDRLQKEMERIYPGEREE | 0.732 | 83 | 0.829294 | S | 0.698 | S | -1.14 | S |
| >1c149bf55757e6b13dd2fa18f3f522cb771d0fe6 |  |  |  |  |  |  |  |  |
| MSLSELSPCHVRSGRIMTVDGPIPSSALGHTLMHEHLQNDCRCWWNPPQEPERQYLAEAPISIEILSELRQDPFVNKHNIALDDLDLAIAEVKQFAAVGGRSIVDPTCRGIGRDPVKLRRISAETGVQVVMGAGYYLASSMPETAARLSADDIADEIVAEALEGTDGTDARIGLIGEIGVSSDFTAEEEKSLRGAARAQVRTGLPLMVHLPGWFRLAHRVLDLVEEEGADLRHTVLCHMNPSHMDPVYQATLAQRGAFLEFDMIGMDFFYADQGVQCPSDDEVARAILGLADHGYLDRILLSHDVFVKMMLTRYGGNGYAFVTKHFLPRLRRHGLDDAALETLMVTNPRRVFDASIEGHHHHHH | 0.449 | 41 | 0.803047 | In | 0.779 | In | -1 | S |
| >711a90cccc50c697d56b83dc6051bbcf5bcaa706 |  |  |  |  |  |  |  |  |
| MSLRNNSAEYIEDKIAEDTNNDKAAGDNGGTKEENKIMAPDFSLKDLDGNTVKLSDYRGKIVFLNFWASWCGPCTSEMPEFEKVHRQFSKEDDAVILAVNLTDGFRETEEKARKFIADNGYTMKVLLDTTGSAAKDYGIYSIPTTYVINRDGSIVTYMEGARPGKVLLDIYEKLKEGHHHHHH | 0.738 | 84 | 0.809244 | S | 0.618 | S | -0.52 | S |
| >83fdb281bc48b1d2407203ff59f84c419a8bfc19 |  |  |  |  |  |  |  |  |
| AIADSLETTQQDYPDCFFQHVKVNVKNPYDLTRQVCSSMDQWLTERLDSEPLSLAILVDSATSILYLSNQSNSFSLLFHYLRVMGRKLSPTLYCVCQLIHFDMGYGDELLKEAKFYDSLILQLDALPLGVPSEQDGRLSIEERDQAISTVLFKILENQIKFFTI | 0.395 | 43 | 0.793062 | In | 0.551 | In | -1.21 | S |
| >2d908340e93ada944d97a28f403ab9b5e537dd27 |  |  |  |  |  |  |  |  |
| MTADGPRELLQLRAAVRHRPQDFVAWLMLADAELGMGDTTAGEMAVQRGLALHPGHPEAVARLGRVRWTQQRHAEAAVLLQQASDAAPEHPGIALWLGHALEDAGQAEAAAAAYTRAHQLLPEEPYITAQLLNWRRRLCDWRALDVLSAQVRAAVAQGVGAVEPFAFLSEDASAAEQLACARTRAQAIAASVRPLAPTRVRSKGPLRVGFVSNGFGAHPTGLLTVALFEALQRRQPDLQMHLFATSGDDGSTLRTRLAQASTLHDVTALGHLATAKHIRHHGIDLLFDLRGWGGGGRPEVFALRPAPVQVNWLAYPGTSGAPWMDYVLGDAFALPPALEPFYSEHVLRLQGAFQPSDTSRVVAEPPSRTQCGLPEQGVVLCCFNNSYKLNPQSMARMLAVLREVPDSVLWLLSGPGEADARLRAFAHAQGVDAQRLVFMPKLPHPQYLARYRHADLFLDTHPYNAHTTASDALWTGCPVLTTPGETFAARVAGSLNHHLGLDEMNVADDAAFVAKAVALASDPAALTALHARVDVLRRASGVFHMDGFADDFGALLQALARRHGWLGI | 0.261 | 17 | 0.564189 | In | 0.75 | In | 0.19 | In |
| >2a452f5b93572bfd6ae34227732cecc6f4b05357 |  |  |  |  |  |  |  |  |
| MDTISKENAPMACQGNAPGPEGSNDTLDSRCWRGAGVRGNRGYLTGRPDRTGCVWLLIGMNSKIIQDPVHGPIRASDAILEMIDTPEFQRLRYIKNLGLCYLVFPSANHSRFEHSIGTFHLAGMYLDHLGIKSEETAMAALLHDVGHFPFSHTIEDFYRKNRGVDHLEEGIKIIRGERESNIPSILEKYSIDVKKVVSILEGRENVLSEIVSGPIDADELDYLRRDSFYCGVSIGFVNPARVISVSGIYDGRMIIEEKGLSDIESLLISRFLMYQAVYFHKTCRIANRMLERAAIMSEAYDTYRLSDQEFTHLLMSDPRSEDMMRNILDRRLMKVLYKVKYDESLAHDILNAVSEKFIVDIIPPLSFRGKDRLKTQVGVLLENRIATGEESSPLVNALNSAIDRRYIYVYGYHEDERDLKRDLAGI | 0.502 | 52 | 0.697685 | In | 0.592 | S | 0.29 | In |
| >7b6af171bbb3dd2d0bc17aefba8d7a3b667cf0a4 |  |  |  |  |  |  |  |  |
| MIFGHGDEGITPLSSEIVNFSTTVWTDGDKDHLEKHLVENLNCIRHYPEPDAGTLRQMLAKRNSVDNNAILVTNGPTAAFYQIAQAFRGSRSLIAIPSFAEYEDACRMYEHEVCFYPSNEDIGEADFSNMDFCWLCNPNNPDGRLLQRTEILRLLNDHPDTTFVLDQSYVSFTTEEVIRPADIKGRKNLVMVYSFSHAYGIPGLRIGYIVANKDFMKRVAAFSTPWAVNALAIEAAKFILIHPAQFTLPIRKWQRNTVDFITALNRLDGVEVHPSGTTFFLLRLKKGTAAELKKYMLEEYNMLIRDASNFRGLDESYVRITTQRPAQNQLFIKALETFLEKYEGHHHHHH | 0.453 | 24 | 0.793122 | In | 0.868 | In | -0.01 | S |
| >f2b2f83c4e7c8556fe960fb2765e368ea5850a65 |  |  |  |  |  |  |  |  |
| PLPNPEGLDSDFLAVLSDYPSPDISPPIFRRGEKLRVISDEGGWWKAISLSTGRESYIPGICVARV | 0.764 | 98 | 0.909896 | S | 0.551 | S | 1.88 | In |
| >e603d28eae075a423de48881964d40654645bcf4 |  |  |  |  |  |  |  |  |
| MEEPDANGYYYHDTFEGSVGQWTAAGPAEVLLSGRTAYKGSESLLVRNRTAAWNGAQRALNPRTFVPGNTYCFSVVASFIEGASSTTFCMKLQYVDGSGTQRYDTIDMKTVGPNQWVHLYNPQYRIPSDATDMYVYVETADDTINFYIDEAIGAVAGTVIEGLEHHHHHH | 0.688 | 12 | 0.833248 | S | 0.56 | In | -0.71 | S |
| >f3bb90738047ab7f4f5f603eb5981d07da37408d |  |  |  |  |  |  |  |  |
| MSLYLYQSRLKDQIIHSVKDVYVHAAGGTYTDAISGMFNVPFGYSCEPIKQRIAQTLNNLPFHPKDHFYSQEWFEASAMLLDRAMMSDGALLYVNSGSEAIESSIAMALEYHQRKGNVKKRKIICRKHSYHGATLGAHSVSGRNDFQELRNSGYDTIRIHPPFAVTHQGRPQEAHSVSDVENIILQTGPEHIAGIIFEPVNHLKGMRESGGEYLAGIRELCDRYDIVMITDEIVTGASRTGSFLNTQRFGVVPDIVALGKGISGGYYPASVMATTAKIASVFEKRGAWIPYSYSHTYASNPVSIASIHASLQVLEQVESSGQLRRLIAKAAELTSEMASNERIARAEASGLLIGLTLDERLGAGAGKRLEQLCFERKLIIRGDENWACLAPAYVMSEAALQEAFEVLNESINHLEGHHHHHH | 0.552 | 28 | 0.740934 | In | 0.553 | In | 0.64 | In |
| >65eedafddc279599a9d5b5d41e86c101042b5491 |  |  |  |  |  |  |  |  |
| MAHHHHHHMWDFEQCDPNACSGKKLYRLNALRLLRLSEPFHGVVLTPSATEIVSPADRGIVLQNGAAVVDCSWKELDAVPWRKMRMSAPRLLPLLLAANPVNYGRPSKLNCAEALAATLAIVGLTDDARSIMAYFSWGASFFDVNRELLAGYQKCTNSAEIAAFQDKYVEAELQESEARRGLDLDSIDLSDARPLNERRGRLKNRREWQQPSCSEDEEENDKAGEDDNSDEGADARVSEEDEDRRESECAAADSTEETA | 0.3 | 79 | 0.747477 | In | 0.951 | In | -1.37 | S |
| >8b00f9c3e7936f67fb1c9e309fe890098dcb7e1e |  |  |  |  |  |  |  |  |
| TNWASGEDDHVVARAEYDFVAVSDEEISFRAGDMLNLALKEQQPKVRGWLLASLDGQTTGLIPANYVKILGKRRGRKTIE | 0.624 | 73 | 0.917267 | S | 0.562 | In | 0.12 | In |
| >38e573b85bce0a6455b27471cfbbfb60dee3b05a |  |  |  |  |  |  |  |  |
| MVALAILRVEKLKSFGNVGGSEKHTARLQDTPNADTTKKNIRLIGMEDGKTLEDLVKTKIATDTKHKPRKDAVLCSEMFLSASPEYFRPHDPSLAGEWNDERMVLFAKASITWLKTNYGDKCVRAELHLDEATPHIHAYIVPINDKTKLLSHKEMFGGDGRVGSIKLSKLQDSYAQALAPLGIERGVKGSKATHTKVKEYYQAVNSEPLTAVWSNQKLEPQPLEHHHHHH | 0.581 | 96 | 0.799554 | S | 0.64 | S | 1.07 | In |
| >2308e8947eab7619d83473c43f023afbad0c7126 |  |  |  |  |  |  |  |  |
| MKLKQVADKLEEVASKLYHNANELARVAKLLGER | 0.736 | - | 0.899782 | S | 0.553 | In | -0.75 | S |
| >93211f79550d0ab319df8c77df2a50bc9618502f |  |  |  |  |  |  |  |  |
| MADAGEGEDEIQFLRTDDEVVLQCTATIHKEQQKLCLAAEGFGNRLCFLESTSNSKNVPPDLSICTFVLEQSLSVRALQEMLANTVEKSEGQVDVEKWKFMMKTAQGGGHRTLLYGHAILLRHSYSGMYLCCLSTSRSSTDKLAFDVGLQEDTTGEACWWTIHPASKQRSEGEKVRVGDDLILVSMSSERYLHLSYGNSSWHVDAAFQQTLWSVAPI | 0.518 | 57 | 0.616334 | In | 0.542 | In | -0.69 | S |
| >7d4a45161a286db7ecea50fdc34369e7982497d2 |  |  |  |  |  |  |  |  |
| MCMLTIDTASRTFHKTWVTGQTQGKAVIARERISFWGGFDPQTGRIVDPYSSLRGRDISDCVLILLSSKGSSGTSGMLSLATRAGHAPAAMIQVEMDPVTVMGCLVNNIPLLQATGFDPFEQIQDGDLVRIDGENGTITLAPGQALEHHHHHH | 0.73 | 21 | 0.885285 | In | 0.759 | S | 0.36 | In |
| >7e245462ea056a771be10cfe044638f4a5bfe4f3 |  |  |  |  |  |  |  |  |
| MSLTLYQKKSKMIGIIIPDLNNRFYAQIIDGIQEVIQKEGYTALISFSTNSDVKKYQNAIINFENNNVDGIITSAFTIPPNFHLNTPLVMYDSANINDDIVRIVSNNTKGGKESIKLLSKKIEKVLIQHWPLSLPTIRERIEAMTAEASKLKIDYLLEETPENNPYISAQSALNKSNQFDAIITVNDLYAAEIIKEAKRRNLKIPDDFQLVGYDNNILCGYTSPTISTIDQNPKLIGQTAAHRLLDLMSGNNSTRNSIIDVLPIKRDSTEGHHHHHH | 0.644 | 38 | 0.785087 | In | 0.897 | In | 1.09 | In |
| >198cbd00f8a76491b2668a27249b2e29e0e5d0cb |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMNAPDSFVAHFREAAPYIRQMRGTTLVAGIDGRLLEGGTLNKLAADIGLLSQLGIRLVLIHGAYHFLDRLAAAQGRTPHYCRGLRVTDETSLGQAQQFAGTVRSRFEAALCGSVSGFARAPSVPLVSGNFLTARPIGVIDGTDMEYAGVIRKTDTAALRFQLDAGNIVWMPPLGHSYGGKTFNLDMVQAAASVAVSLQAEKLVYLTLSDGISRPDGTLAETLSAQEAQSLAEHAASETRRLISSAVAALEGGVHRVQILNGAADGSLLQELFTRNGIGTSIAKEAFVSIRQAHSGDIPHIAALIRPLEEQGILLHRSREYLENHISEFSILEHDGNLYGCAALKTFAEADCGEIACLAVSPQAQDGGYGERLLAHIIDKARGIGISRLFALSTNTGEWFAERGFQTASEDELPETRRKDYRSNGRNSHILVRRLHR | 0.385 | 19 | 0.765173 | In | 0.709 | In | 0.86 | In |
| >d72eeeb129fbec64f73fe006c634e73385c814f8 |  |  |  |  |  |  |  |  |
| MASMSSGDESLRLCMFDLRRGQTEGQELEKILFFYPADLDFSTQLSVIGLSEGLITFTRLFSPEAACEVIEAERHSHVFYEAEPDIWMVMVVEKNKETGAIWRIDALRRVLKEVHSLFVMFHGSIRALIEKEPTGGLTRSLLYPFITDYLSKFFVGKKLQLPTFRETLRERGTVQMLTLARDTAVEVQSLVQVLDSCAGSLRCHSMILFQDLLVSTTLSADDTVDLFTFAVMRLTSKALSSDTSSWSYLRKGPGSSEISSRSNLAPVGSIDSLHSRNGNNMHHVIRPLQNDKWTKGKDGFLITDIWGLETGGSPDSAIPTIWLQQTQERMYLLAYQHKSLTLLLLMPTNAIVNGDLSISAVKQQVIEDASLRILKIEENISRGWGGENAYHIKGYRYLVVDNDTKVSRSSPSGKVTTLAKESLLALNKLREEVDSEKSRAKGQEKDMEICIRAKNNVWVIARVTRGKELYMALEKGSDTLLDTTDAVGRFSNRYCSGAFLMD | 0.58 | 27 | 0.777098 | In | 0.796 | In | 0.55 | In |
| >1010dbd1db5e3be2d7a176363de3151c06e72aaf |  |  |  |  |  |  |  |  |
| MKPPFQEALGIIQQLKQHGYDAYFVGGAVRDLLLGRPIGDVDIATSALPEDVMAIFPKTIDVGSKHGTVVVVHKGKAYEVTTFKTDGDYEDYRRPESVTFVRSLEEDLKRRDFTMNAIAMDEYGTIIDPFGGREAIRRRIIRTVGEAEKRFREDALRMMRAVRFVSELGFALAPDTEQAIVQNAPLLAHISVERMTMEMEKLLGGPFAARALPLLAETGLNAYLPGLAGKEKQLRLAAAYRWPWLAAREERWALLCHALGVQESRPFLRAWKLPNKVVDEAGAILTALADIPRPEAWTNEQLFSAGLERALSVETVRAAFTGAPPGPWHEKLRRRFASLPIKTKGELAVNGKDVIEWVGKPAGPWVKEALDAIWRAVVNGEVENEKERIYAWLMERNRTREKNC | 0.636 | 51 | 0.78004 | In | 0.554 | S | 0.34 | In |
| >6967e577f56c804fac9a7b447fd0b167825d0000 |  |  |  |  |  |  |  |  |
| MELDFGHFDERDKTSRNMRGSRMNGLPSPTHSAHCSFYRTRTLQALSNEKKAKKVRFYRNGDRYFKGIVYAVSSDRFRSFDALLADLTRSLSDNINLPQGVRYIYTIDGSRKIGSMDELEEGESYVCSSDNFFKKVEYTKNVNPNWSVNVKTSANMKAPQSLASSNSAQARENKDFVRPKLVTIIRSGVKPRKAVRVLLNKKTAHSFEQVLTDITEAIKLETGVVKKLYTLDGKQVTCLHDFFGDDDVFIACGPEKFRYAQDDFSLDENECRVMKGNPSATAGPKASPTPQKTSAKSPGPMRRSKSPADSGNDQDANGTSSSQLSTPKSKQSPISTPTSPGSLRKHKDLYLPLSLDDSDSLGDSM | 0.619 | 83 | 0.555285 | In | 0.826 | In | 2.64 | In |
| >6b51ad3b071d76cedd2f4bcfd09d1fd17739ffdb |  |  |  |  |  |  |  |  |
| MRGSHHHHHHGSMSSGNSSLGIIVGIDDSPAAQVAVRWAARDAELRKIPLTLVHAVSPEVATWLEVPLPPGVLRWQQDHGRHLIDDALKVVEQASLRAGPPTVHSEIVPAAAVPTLVDMSKDAVLMVVGCLGSGRWPGRLLGSVSSGLLRHAHCPVVIIHDEDSVMPHPQQAPVLVGVDGSSASELATAIAFDEASRRNVDLVALHAWSDVDVSEWPGIDWPATQSMAEQVLAERLAGWQERYPNVAITRVVVRDQPARQLVQRSEEAQLVVVGSRGRGGYAGMLVGSVGETVAQLARTPVIVARESLT | 0.494 | 56 | 0.555981 | In | 0.539 | In | 0.38 | In |
| >ad27cba60bada55276dc6e63ca1105c4d0a07576 |  |  |  |  |  |  |  |  |
| MSYYHHHHHHLESTSLYKKAGSENLYFQGIVDKNKIVIPMSEFLDSMFLVIEKLGVHAEKKGSMIFLSSERVKLADWKQLGAMCSDCYHCKLPLSSFIEIVTRKAKDKFLVMYNEKEVTLVARGVQTIQK | 0.515 | 98 | 0.61164 | In | 0.578 | S | 1 | In |
| >d20e9d937c59662cdf85eed23bc65ea60b5b75f4 |  |  |  |  |  |  |  |  |
| MSLSFDDIPENPFLNKKSHKDILKDHGECGTTLIDTLPEVIFLGGTNVGKSSILNNITTSHVSRDLGSLARVSKTTGFTKTLNCYNVGNRLRMIDSPGYGFNSSKEQGKVTLQYLLERKQLVRCFLLLAGDKEINNTDNMIIQYIHEHGVPFEVVFTKMDKVKDLNKFKKKVMSSGLMDLPTLPRLVLTNSLTSSTSPKRFGIDLLRYVIFQSCGLILEGHHHHHH | 0.769 | 61 | 0.874862 | In | 0.549 | S | 2.15 | In |
| >94530eba573271ad981d63088c00c0f9742acb2a |  |  |  |  |  |  |  |  |
| AHHHHHHGSEAKVCKFCAGERLDDVVKLLKEKGYKVSIEECIGLCAKYGCGNINVIAGEKEISVGSFEELIKALEE | 0.812 | 100 | 0.912628 | S | 0.67 | S | -0.92 | S |
| >844adc84500d12889382ca35fb034079893e1392 |  |  |  |  |  |  |  |  |
| GMGFLDALMGNASEVDLGKLAAELSPILGDNEELQLAYKMVRDLFVFTSKRLILIDKQGVTGKKVSYHSIPYKAIVHFQVETAGTFDMDAELKLWISGQHEPLVKELKRGTDVVGIQKTIARYALG | 0.639 | 86 | 0.644566 | S | 0.826 | S | -0.01 | S |
| >778fcd70b31355f5396491ec510036c4d36df9b8 |  |  |  |  |  |  |  |  |
| GSSMANNALQTIINARLPGEEGLWQIHLQDGKISAIDAQSGVMPITENSLDAEQGLVIPPFVEPHIHLDTTQTAGQPNWNQSGTLFEGIERWAERKALLTHDDVKQRAWQTLKWQIANGIQHVRTHVDVSDATLTALKAMLEVKQEVAPWIDLQIVAFPQEGILSYPNGEALLEEALRLGADVVGAIPHFEFTREYGVESLHKTFALAQKYDRLIDVHCDEIDDEQSRFVETVAALAHHEGMGARVTASHTTAMHSYNGAYTSRLFRLLKMSGINFVANPLVNIHLQGRFDTYPKRRGITRVKEMLESGINVCFGHDSVFDPWYPLGTANMLQVLHMGLHVCQLMGYGQINDGLNLITHHSARTLNLQDYGIAAGNSANLIILPAENGFDALRRQVPVRYSVRGGKVIASTQPAQTTVYLEQPEAIDYKR | 0.453 | 26 | 0.615093 | In | 0.573 | S | -0.23 | S |
| >ecd2f3fe861c0a1038ddee3ec8fe1da20ff4a21c |  |  |  |  |  |  |  |  |
| MNEEVVMKFLHTSDWHVGRTLNGWSLLEEQEWAFQQIVDLAISEKVDGVIISGDLYDRAVPPVDAIKLFNKTLARLVLEEQIPVYAISGNHDGAERLHFGRDFFQHQGLHLSTRLEEAFEPIELENCQIFLLPFIDPIDARIYYKDDEGKEIQGIGDALTYILEDMEKAFDPDKAHVLVTHFAVSKKDDSDGQGLRELMLSETSNTVGGLTNVTSDLFKSFDYVALGHIHTRFASPTKRVQYSGSPVAFNVKEAKRKEEKGVYILELDASGDMSQTFHTLEVKRPIVALQESFETLMSPEFYKNQPCQKAWFAFDIQLSSRKELEGINVRARLEEIYGTDIVEITFSRLGDVREENLTVDQHLKDLEMQSPQEIVFDFYQTVTGGDVLSERQTALVESVFEEIERSRQ | 0.607 | 77 | 0.665619 | S | 0.721 | S | -2.04 | S |
| >ef07f10d2e7b34a3eebe25ef364cbe7acb7c38d3 |  |  |  |  |  |  |  |  |
| MQRLNLGCGQYPKAGFLNVDVDPLAKADVFHDLSSFPYPFEDARFDLVEMDHVLEHLPSPRDAMREIWRILKPGGTLRLRVPHFSRGFSHYDHKCGFDVTFPLYFDPTFPGGYTGIPFEHVQTRLVWFAQPWLKRQVLGNFAFNVGKMLGMVFDALGNIAPLATSRLFCFWVGGYEEITFELRRPTNTLEHHHHHH | 0.59 | 18 | 0.524516 | In | 0.547 | S | 0.49 | In |
| >88bad5907d7de2f33a9943f64564f2abca712117 |  |  |  |  |  |  |  |  |
| MIVLILVFRLVIGEQIIDVLGPEKRRRRTTQEKIAIVQQSFEPGMTVSLVARQHGVAASQLFLWRKQYQEGSLTAVAAGEQVVPASELAAAMKQIKELQRLLGKKTMENELLKEAVEYGRAKKWIAHAPLLPGDGE | 0.352 | 52 | 0.756469 | S | 0.58 | In | 0.66 | In |
| >e85e03128a8ee40ed1cf76f382ad250838029d0a |  |  |  |  |  |  |  |  |
| MSLGEAEVKQENTLYRYLYQIAEKNSSQVAIYYLGKPITYSALISMVDSFAFNLKSLDVDGDVGIMLRNSPQILISILALNRLGLPAFILNQYENPSKYGIKTIIGNASSLCRLDPFPDRAIVVREEDLGPYGSSIDPYFKNDRACFKKFLAKRGILKFSDMIFDKVNREELPENDGVLKRHTFRGDSVYTYPSSFIYEAANSLQQFLEGYRKDVAVYSSLNHISSLIFSLIPLFSGRTLTLMPEFYEVEKTIKAIEKAESSMLVGNTYLYEEMLLKNVEMPKTIRYLFSIGEYIRPEFLKDFFVKYGKDIKIGYDISAATGLVCMQELMKNDFDSVGVALPDCTVSISDRSGKPLPVGENGLVKIKSNRIVDKTDEGGSLSTGDLGHIDESGHLYLAKASETVFGSVVSPEIIEGIIGKVWNKTDLAVGLYKTRSSYRLEAFIASSDRSDAVKFARTCKEILPLEIRPFRYVMVKKIPRSQSGKIIRELLGKESIGSINPKEGHHHHHH | 0.593 | 56 | 0.744021 | In | 0.51 | S | 1.3 | In |
| >3028e2326f900f0edb672320c5077b8f1aac08b3 |  |  |  |  |  |  |  |  |
| SRAPAPATPHAPDHSPAPNSPTLTRPPEGPKFPRVKNWELGSITYDTLCAQSQQDGPCTPRRCLGSLVLPRKLQTRPSPGPPPAEQLLSQARDFINQYYSSIKRSGSQAHEERLQEVEAEVASTGTYHLRESELVFGAKQAWRNAPRCVGRIQWGKLQVFDARDCSSAQEMFTYICNHIKYATNRGNLRSAITVFPQRAPGRGDFRIWNSQLVRYAGYRQQDGSVRGDPANVEITELCIQHGWTPGNGRFDVLPLLLQAPDEAPELFVLPPELVLEVPLEHPTLEWFAALGLRWYALPAVSNMLLEIGGLEFSAAPFSGWYMSTEIGTRNLCDPHRYNILEDVAVCMDLDTRTTSSLWKDKAAVEINLAVLHSFQLAKVTIVDHHAATVSFMKHLDNEQKARGGCPADWAWIVPPISGSLTPVFHQEMVNYILSPAFRYQPDPW | 0.723 | 43 | 0.83344 | S | 0.607 | S | 1.1 | In |
| >f0d9aa73ab89b30efe2e3be748178daea66c50b4 |  |  |  |  |  |  |  |  |
| HIKWDHSQTWDVPVAEDFPNGSSSSSATVYSIDASPESPDHYLVDHCIDGRVIFPGTGYLCLVWKTLARSLGLSLEETPVVFENVSFHQATILPKTGTVALEVRLLEASHAFEVSDTGNLIVSGKVYLWEDPNSKLFD | 0.774 | 91 | 0.879485 | S | 0.72 | S | -0.93 | S |
| >8122b3502a2439917be4318e502f4535d3259646 |  |  |  |  |  |  |  |  |
| MSLRWEEVEPVVRELLDFQISSPEEFRTFINKVTDFFDRVREEHGWLYIKMTVNADKEEFAKAYEEFQKEIVAKLKPYEQKIKEKIVENEHFAPRGYEHMIKVIKNDVELFREENVPLQVKESILSRNYGTIVGNIEVDFEGEKKTLQQLSVYLRDPDRSTRELAWRKRYEGIWEVRDKLNKLFDELKEIRHQQALNAGFSNYRDYMHRLKSRFEYTPEDLYRFHEAVEKEVVPYLVERTKIRQRKLGIESVRPWDTAVDVDGKVLKPFSSVEEFMEKTERALKRLNPTFAERFRLMREKNLLDLENRKGKAPGGYNHTLPKTGAPFIFMNAVGQPGDVRTIFHELGHSMHSFETLSLPVFYRPHRMEVAELASMSLELISMEYWDEFYTDPEDLKKAKIEELEGALYFLPWCMIVDAFQHWIYTNPDHTPKERDEYFAYLMDRFNPGVDWSDLDEEKKTRWLFQLHIFEVPFYYIEYGIAQIGALAIYRNYIEDPEKTLKDYQRFLSVGCSMPVDEVYKTAGIELKFSRDYIREIVDFVAKQIEEIEKEGGSHHHHHH | 0.643 | 86 | 0.601229 | In | 0.628 | S | -1.17 | S |
| >63eed19e8026e99b6ca469f512c7ed37b9b98335 |  |  |  |  |  |  |  |  |
| MSLLNCENSCGFSQSESDCCVAMASSCSAVTKDDSVGGTASTGNLSSSFMEEIQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIIKSIRDAGHKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQAHCEFALMDCPQCQRPFQKFHINIHILKDCPRRQVSCDNCAASMAFEDKEIHDQNCPLANVICEYCNTILIREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLQENTQSHMRMLAQAVHSLSVIPDSGYISEVRNFQETIHQLEGRLVRQDHQIRELTAKMETQSMYVSELKRTIRTLEDKVAEIEAQQCNGIYIWKIGNFGMHLKCQEEEKPVVIHSPGFYTGKPGYKLCMRLHLQLPTAQRCANYISLFVHTMQGEYDSHLPWPFQGTIRLTILDQSEAPVRQNHEEIMDAKPELLAFQRPTIPRNPKGFGYVTFMHLEALRQRTFIKDDTLLVRCEVSTRFDMGSLRREGFQPRSTDAGV | 0.594 | 75 | 0.829798 | In | 0.97 | In | -0.2 | S |
| >43b81c3271b3e189664d916c3b850eb120ad45f8 |  |  |  |  |  |  |  |  |
| SNGQADRCDRTAYVSGLQPTISDIELFEVFNRVAHVEKVIVRNGAARHALIVFKTVQGLYQVLVNFQGTTLHGRQLHIRPLRESSHANSEAISTMFEKVKHQGNSGNSSYRQEHSFPEYRNQNPQASSYLPPNPRGHRNSTGCFNGGGGGYGRRRSAGGYNQYNQNKYPNETYPGMTLFDNHPVQQYSGFNPIDFRFDDYVEGAKRFDNLANLIRSSTPTDPFANYQKPCESTSTSRSRTNSAKDQKHGPPTWKMELQIKKDDHHHAGGGAATTGQKLSPQQFLAQIAQRQQSEQNADEVAKKKRPNLSVINPSLFYEQYPRTSSPVVYASKSKPSGHYDDKIASPHDPAVLAYSRLRVPQSAFDSLSPIDTDNCSFITKHLGPTTGVKRDLTNDELSDMIVSTGNLRINPTNIDHHDEPAPWSPLKRLRAESGSLSTAQVASPEFSPIKPKTMEFHETEDDVFETGPPPTYLSEGNENAEKKCVEQPKINYDDINNSRLPSNSHSAAPNSEKKHFVFPEYPMCRHSSVPSIAHLVGDLSDFCPHATADEKMLLDEASSIIENTTPAVSTAPAAAPGATMLQI | 0.524 | 91 | 0.536396 | S | 0.99 | In | 1.99 | In |
| >884fcc9313746beb569dfb8d1f9c01471b889909 |  |  |  |  |  |  |  |  |
| CPERELQRREEEANVVLTGTVEEIMNVDPVHHTYSCKVRVWRYLKGKDIVTHEILLDGGNKVVIGGFGDPLICDNQVSTGDTRIFFVNPAPQYMWPAHRNELMLNSSLMRITLRNLEEVEHCVEEHRKLKA | 0.699 | 79 | 0.682413 | In | 0.536 | S | -0.44 | S |
| >c9ba0723c65b62f8c9466224ad33af5b6920ef1f |  |  |  |  |  |  |  |  |
| MPGSIPLIGERFPEMEVTTDHGVIKLPDHYVSQGKWFVLFSHPADFTPVCTTEFVSFARRYEDFQRLGVDLIGLSVDSVFSHIKWKEWIERHIGVRIPFPIIADPQGTVARRLGLLHAESATHTVRGVFIVDARGVIRTMLYYPMELGRLVDEILRIVKALKLGDSLKRAVPADWPNNEIIGEGLIVPPPTTEDQARARMESGQYRCLDWWFCWDTPASRDDVEEARRYLRRAAEKPAKLLYEEARTHLH | 0.703 | 63 | 0.710976 | In | 0.552 | S | -0.11 | S |
| >88babc32637589c8a306ebe19e4b1de26d36d0bd |  |  |  |  |  |  |  |  |
| SEFITVARPYAKAAFDFAVEHQSVERWQDMLAFAAEVTKNEQMAELLSGALAPETLAESFIAVCGEQLDENGQNLIRVMAENGRLNALPDVLEQFIHLRAVSEATAEVDVISAAALSEQQLAKISAAMEKRLSR | 0.351 | 92 | 0.857212 | S | 0.704 | S | -2.38 | S |
| >52d5272dd982b1f6579249d4c8bcc5edf873ccec |  |  |  |  |  |  |  |  |
| QFNPYGDNGGTILGIAGEDFAVLAGDTRNITDYSINSRYEPKVFDCGDNIVMSANGFAADGDALVKRFKNSVKWYHFDHNDKKLSINSAARNIQHLLYGKRFFPYYVHTIIAGLDEDGKGAVYSFDPVGSYEREQCRAGGAAASLIMPFLDNQVNFKNQYEPGTNGKVKKPLKYLSVEEVIKLVRDSFTSATERHIQVGDGLEILIVTKDGVRKEFYELKRD | 0.627 | 65 | 0.724621 | S | 0.575 | S | 0.89 | In |
| >08eb2f898eee92b575834fe8eb5686f4619efcf3 |  |  |  |  |  |  |  |  |
| MSLTIKVGIIGCGGIANGKHMPSLQKVENVEMIAFCDVDISKAASAAEAYGTDNAKVYDDYKALLKDDTIDVIHVCTPNDSHCEITVAGLHAGKHVMCEKPMAKTTAEAQKMIDTAKSTGKKLTIGYQNRFRPDSQFLHQAAQRGDLGDIYFGKAHAIRRRAVPTWGVFLNEEAQGGGPLIDIGTHALDLTLWMMDNYEPESVMSSTFHKLNKQHDAANAWGSWNPDEFTVEDSAFGFIKMKNGATIILESAWAINSLEVDEAKCSLSGTKAGADMKDGLRIHGEDMGTLYTKHVELENKGVDFYEGNEVDEAEEEAKAWIDAVVNDTEPVVKPEQAMVVTKILEAIYQSAKSGKAIYFEGHHHHHH | 0.751 | 97 | 0.655614 | S | 0.511 | In | -1.06 | S |
| >8af471c9ba7b09975e74397c873f1b7425e93cf6 |  |  |  |  |  |  |  |  |
| MKRRLGLKLYYRRRGHVKPSLLFVIQSHKGEFVKDRLEEYLNNLKIEKKPDSRESWDSYFMRIARMVSERSTCVHRKVGAVIVKDHRILATGYNQPPSKFPHCNEIGCIRDDLEINSGEHQEICYALHAEQNALMQAAKFGIAVNGATIYVTHKPCSICARLIVNAGIKRVVYEKDYPDPLTDFFFKFTGVESVRFVGDEM | 0.703 | 69 | 0.85203 | In | 0.512 | S | 0.99 | In |
| >df2992e23d08cd00f576da5a5932ad207cec13ab |  |  |  |  |  |  |  |  |
| STTETAKKKGTPQIFKTDKAQKLAEKWVASMARPTEDDPIETAQEERPHRLGLGAQVSRQTKRRPSDDPLDQKLEAKFAAVKRKNARLVAEAAGSSKNAGDDSEDDDESESKSQAFGKKKKNTSTPH | 0.859 | 80 | 0.55648 | S | 0.734 | In | 1.53 | In |
| >2bae632287d5fa0d3e78d94afec00413ab9fc57e |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMEMLEEHRCFEGWQQRWRHDSSTLNCPMTFSIFLPPPRDHTPPPVLYWLSGLTCNDENFTTKAGAQRVAAELGIVLVMPDTSPRGEKVANDDGYDLGQGAGFYLNATQPPWATHYRMYDYLRDELPALVQSQFNVSDRCAISGHSMGGHGALIMALKNPGKYTSVSAFAPIVNPCSVPWGIKAFSSYLGEDKNAWLEWDSCALMYASNAQDAIPTLIDQGDNDQFLADQLQPAVLAEAARQKAWPMTLRIQPGYDHSYYFIASFIEDHLRFHAQYLLK | 0.538 | 35 | 0.799506 | In | 0.611 | S | 0.18 | In |
| >eced30383a781a5cdb3f0be6b19c64d55bd163c0 |  |  |  |  |  |  |  |  |
| MSAFADSTNIIAHDKETIAKNVDSTGEEKVAMTNVAEETTPSTDSATTNEKTASENSPTEAAASDVKDVAEASTGAQETNTSSETPAVVEDEKASMEVSIGTSIEDSETSQKEIEGELVVPENPVEEISPEQKRKSLSENIIAGRRFMRTDVFDKAVDVLSVAASIAAEVFGDAHEDTFEANFLYGKALLEVGKLEDRVLANALTDVPKMAEGEEEVQDGIVENPEDVPQDERAEIKQKVEEALGVASEEPETVADEAVKTEQKEAEEDSVEKDVENSDEQNQEEEEVVENEATVDPTEDVEMEGVEEVNDEKEVGQTAEVDGEAEEDDEAEDDEADSMKLAWELLETSRCIADKKAASLAAESTVDGEAIKMWKLNLADVLTSLGEHGIADSKYEQAQKDLTEAISIQTVHLPATSRVIANTTHLLAKAFSSDSLFEQAAAHFNDTKNILIAKSEELKKQLETVSDDAKSDIQSEIKELDGIIPELDAFIVDARASAEQTEKLKSDAKKELEGAAAMLAKVADVTEATDISSMVRRPTKRPASEEAPEETKKRKSGDGVDVAVVTEEQVVESTEEPTPINE | 0.698 | 100 | 0.887293 | S | 0.631 | S | -4.54 | S |
| >792517d5c4bfd311d9746af2a09335816334c051 |  |  |  |  |  |  |  |  |
| MDQSVEDLFGALRDASASLEVKNSAKEQVSLQQEDVLQIGNNDDEVEIESKFQEIETNLKKLPKLETGFDALANKKKKKNVLPSVETEDKRKPNKSDKNDNDWFTLPKPDDNMRREVQRDLLLIKHRAALDPKRHYKKQRWEVPERFAIGTIIEDKSEFYSSRMNRKERKSTILETLMGDEASNKYFKRKYNEIQEKSTSGRKAHYKKMKEMRKKRR | 0.484 | 94 | 0.849328 | S | 0.764 | In | 0.73 | In |
| >2cd90345e336eddb6088182f3f7cfbe72af42666 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHRTRGRPTRPGLKMICILYEPLMVQLTSTVRWCGRYCLLLTFLFFQIKGSWSNKRGKENYNPYSYGNIFTNCCVALCGPISPR | 0.597 | 6 | 0.562631 | S | 0.652 | In | 0.16 | In |
| >c4b7f923ab5f4f3c398f99202a577759734ec584 |  |  |  |  |  |  |  |  |
| MSLKVLFTLDVPERLKNLQAEKFPDDTFYFESIDHFTNLGEVDVIITYGSNITEEKIKKATNLKLIMVFSAGVDSLPTKIIQEQKIKVANVRGIHAIPMGEYALSFMLSHVKKAAFFYKMQKEEKWASEEPITELAGKTLVVAGTGAIGAKVAEFAQAFDMEVIGINTTGHPVKPFSKTYAMTDLEKVAPLADFFVSVLPQTEETSGIYQLSFFEKMKTNAVFINIGRGSAVELETLERASKEEQIAHFYLDVLPEEPLPAESYLWQASNVTITPHVSGHSDKYLDRSFEIWFENINHLKENTEGHHHHHH | 0.577 | 95 | 0.934932 | S | 0.61 | S | -0.86 | S |
| >a671167608c0c11d14863bb9a46f16892de7d57e |  |  |  |  |  |  |  |  |
| MSENANDIVTLRAQGGSDAPSDQPLNQVITNSTRQFNIELIRVQPRGEMMQVWIQPLPFSQLVSWIAYLQERQGVSVDAIDIDRGKVNGVVEVKRLQLKRGGLEHHHHHH | 0.496 | 32 | 0.943497 | S | 0.706 | S | 0.78 | In |
| >58ced6e1350ff827a202d389f447a2105e1223d3 |  |  |  |  |  |  |  |  |
| MAIVLVGTLDTKGEEFAFARDVIEAQGVDVHVIDVGVLDDAEFEPDTTATEVAEAAGTTLDVLREESDRGEAMTAMGEGAAAVVTDLFESGELAGVLGLGGSGNTSIATRAMRALPVGVPKLMVSTMASGDTEPYVGSTDIAMMYSVADIEGLNQLSRQVISNAALAIVGMGTTESDVTVEDRPTVGITMFGVTTPCVQAAREHLEGWGYETIVFHATGTGGQAMERLIREGIIDGVLDITTTEWADELVGGVLNAGPERLDAAAQTGVPQVVSTGALDMVNFGPRDSVPDEFEGRQFHVHNPQVTLMRTTPEECAELGEILATKLNAATGPAAVALPLGGVSVLDVEGKDFYDPEADAALFDAIHKHIDPAVELFEMEAPINDEAFARALAEKLDEYMRAAGVGPLEHHHHHH | 0.577 | 76 | 0.893686 | S | 0.514 | S | -2.93 | S |
| >1515bd6e70a7df3833adea9a92fca4a0c66ecd01 |  |  |  |  |  |  |  |  |
| MAHHHHHHMAPMSKSVVEAKNEDGSSITVHTQGAHLTSWRTREGEEILYTSPNAVYKQGVPIRGGVPIIFPQFGNRGPLPAHGFARIREWNVKELRSGMASFTLELPSSELRKQGAELRHNNDTSASGTVSLLYTITFSNEQLKLQMEVTSHDTEADIRFTFAFHTYFAVGDITKTRVDGVNTTSFINNLKEQQALQSPEPLWCIREEVDRIYVDQKSAISLLDQARHRTVHVSGENLPDVVLWNPWVEKTARLKDLPLDGYNKFVCVEHGSIAKEVILPPKGVWKASQCISSRGVSNL | 0.705 | 57 | 0.5 | S | 0.902 | In | 1.07 | In |
| >2bda510b16c420190a505c29158774fd82769f6e |  |  |  |  |  |  |  |  |
| MVYSYTEKKRIRKDFGKRPQVLDVPYLLSIQLDSFQKFIEQDPEGQYGLEAAFRSVFPIQSYSGNSELQYVSYRLGEPVFDVQECQIRGVTYSAPLRVKLRLVIYEREAPEGTVKDIKEQEVYMGEIPLMTDNGTFVINGTERVIVSQLHRSPGVFFDSDKGKTHSSGKVLYNARIIPYRGSWLDFEFDPKDNLFVRIDRRRKLPATIILRALNYTTEQILDLFFEKVIFEIRDNKLQMELVPERLRGETASFDIEANGKVYVEKGRRITARHIRQLEKDDVKLIEVPVEYIAGKVVAKDYIDESTGELICAANMELSLDLLAKLSQSGHKRIETLFTNDLDHGPYISETLRVDPTNDRLSALVEIYRMMRPGEPPTREAAESLFENLFFSEDRYDLSAVGRMKFNRSLLREEIEGSGILSKDDIIDVMKKLIDIRNGKGEVDDIDHLGNRRIRSVGEMAENQFRVGLVRVERAVKERLSLGDLDTLMPQDMINAKPISAAVKEFFGSSQLSQFMDQNNPLSEITHKRRISALGPGGLTRERAGFEVRDVHPTHYGRVCPIETPEGPNIGLINSLSVYAQTNEYGFLETPYRKVTDGVVTDEIHYLSAIEEGNYVIAQANSNLDEEGHFVEDLVTCRSKGESSLFSRDQVDYMDVSTQQVVSVGASLIPFLEHDDANRALMGANMQRQAVPTLRADKPLVGTGMERAVAVDSGVTAVAKRGGVVQYVDASRIVIKVNEDEMYPGEAGIDIYNLTKYTRSNQNTCINQMPCVSLGEPVERGDVLADGPSTDLGELALGQNMRVAFMPWNGYNFEDSILVSERVVQEDRFTTIHIQELACVSRDTKLGPEEITADIPNVGEAALSKLDESGIVYIGAEVTGGDILVGKVTPKGETQLTPEEKLLRAIFGEKASDVKDSSLRVPNGVSGTVIDVQVFTRDGVEKDKRALEIEEMQLKQAKKDLSEELQILEAGLFSRIRAVLVAGGVEAEKLDKLPRDRWLELGLTDEEKQNQLEQLAEQYDELKHEFEKKLEAKRRKITQGDDLAPGVLKIVKVYLAVKRRIQPGDKMAGRHGNKGVISKINPIEDMPYDENGTPVDIVLNPLGVPSRMNIGQILETHLGMAAKGIGDKINAMLKQQQEVAKLREFIQRAYDLGADVRQKVDLSTFSDEEVMRLAENLRKGMPIATPVFDGAKEAEIKELLKLGDLPTSGQIRLYDGRTGEQFERPVTVGYMYMLKLNHLVDDKMHARSTGSYSLVTQQPLGGKAQFGGQRFGEMEVWALEAYGAAYTLQEMLTVKSDDVNGRTKMYKNIVDGNHQMEPGMPESFNVLLKEIRSLGINIELEDE | 0.512 | 75 | 0.982091 | S | 0.651 | S | -0.27 | S |
| >f46ee3462c49fc27b5f7e3299f560fc81818a72a |  |  |  |  |  |  |  |  |
| MNCKFEGSKVFFTSDTHFYHGNIIRFCNRPFKDVGMMNETIISNWNNTVGLDDIVFHLGDFCLGGSAEWTKILDRLNGKIYLILGNHDLKNLRQGYVDRFEHLAMQMHIEVNKQKIYLNHYPFLCFDGGYKDVWQLFGHVHTRNNNTGIDATRLQHLYPTQYDVGVDNNNFMPVSFAQVKTIIEKQIKQSKMEELEHHHHHH | 0.272 | 26 | 0.754435 | In | 0.565 | In | 0.4 | In |
| >30a08fc5cd63fcd5bef81aebfb9307c407849010 |  |  |  |  |  |  |  |  |
| MSHKCFKDESFETRISCPLCQKELIMTWQRDNIPYFGEIMYVSAKCPCSFRFADTMILSSKEPMRYELSVESPEDLDARVIRSTSGTIRIPEMGIVVEPGTVSDSYITNIEGVLQRVQNVLMTASRWVREDEEKFARSQELLCMLNEVIEGRRAITVIIEDPLGNSAIISKKAVASKLSKEEAEKLNTGMIVFDVDKSELAHDISDNVKPLGGDLEHHHHHH | 0.627 | 89 | 0.742681 | In | 0.671 | S | -0.66 | S |
| >415e977164bd6007d4241a2c7f055ab2f2da29ca |  |  |  |  |  |  |  |  |
| MHHHHHHSSGLVPRGSQEIEAKEACDWLRAAGFPQYAQLYEDSQFPINIVAVKNDHDFLEKDLVEPLCRRLNTLNKCASMK | 0.65 | 95 | 0.595092 | In | 0.511 | S | -0.28 | S |
| >019b089237011bafdaab1463858f89eb1b52c950 |  |  |  |  |  |  |  |  |
| GAMAIRTSELLKRPPVSLPETATIREVATELAKNRVGLAVLTARDNPKRPVAVVSERDILRAVAQRLDLDGPAMPIANSPITVLDTDPVHVAAEKMRRHNIRHVVVVNKNGELVGVLSIRDLCFERAILLELATAEVPATP | 0.663 | 97 | 0.655252 | S | 0.621 | In | 0.78 | In |
| >ebb17b81962fc870b929d66abca5c1111819c8ad |  |  |  |  |  |  |  |  |
| MLIIGERINGMFGDIKRAIQERDPAPVQEWARRQEEGGARALDLNVGPAVQDKVSAMEWLVEVTQEVSNLTLCLDSTNIKAIEAGLKKCKNRAMINSTNAEREKVEKLFPLAVEHGAALIGLTMNKTGIPKDSDTRLAFAMELVAAADEFGLPMEDLYIDPLILPANVAQDHAPEVLKTLQQIKMLADPAPKTVLGLSNVSQNCQNRPLINRTFLAMAMACGLDAAIADACDEALIETAATAEILLNQTVYCDSFVKMFKTR | 0.479 | 83 | 0.722702 | S | 0.83 | In | -0.84 | S |
| >7e23c7ed67d8d268738bf937a644b9b6db87d876 |  |  |  |  |  |  |  |  |
| ALEVPNGPWRSLTFYPAWLTVSEGANATFTCSLSNWSEDLMLNWNRLSPSNQTEKQAAFSNGLSQPVQDARFQIIQLPNRHDFHMNILDTRRNDSGIYLCGAISLHPKAKIEESPGAELVVTERILETSTRYPS | 0.572 | 17 | 0.757667 | S | 0.569 | S | 1.23 | In |
| >4b05a76a7275ac83fc371e3d4fc817b8a24a99b0 |  |  |  |  |  |  |  |  |
| MRTYPVEIAGVRRELPIVQVGPGVAVALLNLLGDTELTEAAAEALAKRLPPEVEVLVTPEVKAVPLAHALSRITGKPYVVARKTEKPYMINPVSRQVLSITTGKPQLLVLDGADIPRVRGKKVAIVDDVVSTGSTLAGLRELIESVGGEVVAVLAVFTEGTPRQDVVALGHLPLFKPE | 0.749 | 94 | 0.868191 | S | 0.726 | S | 0.61 | In |
| >7880e63ad19469cc15258ec33f889f4e69cd3b06 |  |  |  |  |  |  |  |  |
| MNESVDVMDVIAICCPKYKDRPQIARVVQRTSSGVSVQWMAGSYSGSWTEAKRRDGRKLVPWVDTIKESDIIYKKIALTSANKLTNKVVQTLRSLYAAKDGTSS | 0.523 | 53 | 0.804974 | S | 0.61 | In | 0.6 | In |
| >d02e4ea89b635939502788f9189b7d61020a8333 |  |  |  |  |  |  |  |  |
| MNEYDEECLLTFLKKQSQLFDEPVAETMEEAEAFLEDCMAVVVDSLDEVREYFEESGADVENMDAEELEEASEVFPLSGGRYLIVEGLEHHHHHH | 0.84 | 100 | 0.539567 | S | 0.608 | S | -7.95 | S |
| >6a795fcfb2f27aeacddae47493bb4c6aa5b416bc |  |  |  |  |  |  |  |  |
| MSLAKILIPSSLIPLTGAVLQCLLLAKEQGFSIDEIELGVSPTQFIQLVLGQNTFRVGTDLIDVCEEAETADFVLYYQSGLSVSECRQQPSSAIFIGIQDVESKLDDSVKTTSADVLDIWRHPVNDEIRALSVASTSRTTTLQTDQHLAWTVTLLALDFPIEDALTLARPMTNVSRETLINGETMVKQEWASQFADFPTPVLEDCRLGIKVGWSSHGQSVNFPHLSKQSLGLYPVVDDVSWIERLLPLGINTIQLRIKDPYQPDLEQQIARAIELGRQYDAQVFINDYWQLAIKHGAFGVHLGQEDIEDSNLSQLSTAGICLGLSTHGYYELLRIVQINPSYIALGHIFSTTTKQMPSKPQGLVRLALYQKLNDSIPYGESVGYPTVAIGGIDQSNAEQVWQCGVSSLAVVRAITLSESPKQVIEFFDQLMNTTSTSLVMEDYRAYEGHHHHHH | 0.533 | 31 | 0.84163 | In | 0.551 | In | -0.76 | S |
| >79d13f3370f893e689905e07ff39c5524a8ef748 |  |  |  |  |  |  |  |  |
| VGGSDERFLCRSIRKLVYPKKGLRADDTWQLIVNNDEYKQAIQIEECEGADQPCDFAANFPQSYNPICKQHYTQQTLASIKSDGELDVVQNSFKIPSCCKCALKTGLEHHHHHH | 0.733 | 98 | 0.944672 | S | 0.532 | In | 0 | S |
| >5bbbc6e1c74cdc148a556214b1370451df7ec59a |  |  |  |  |  |  |  |  |
| MVDESYVDVSGVSVHYRFSKGSKPRKNLVIVDVNGKREWDGIRFIERIQEWGISVYYPDYPDALDSKDTLSSKSADYVKLSPKFYSDFIYSLHLKNTMLIGSGVNGDVALRCAMEYPERCSNIIVINAPGYDDYKIELYKVQKPVLLIWGDSGGYQSIMRGQSYHDLISDSVFKVFDKSAEPHVDKTEKFYSLLKNYIAED | 0.348 | 54 | 0.570988 | S | 0.622 | S | 0.65 | In |
| >93538d3222028fd0d4b158cab86415abaee58b16 |  |  |  |  |  |  |  |  |
| MSLLDEMEFRFQLQKKENRRGHKMSKFNRIHLVVLDSVGIGAAPDANNFVNAGVPDGASDTLGHISKTVGLNVPNMAKIGLGNIPRETPLKTVAAESNPTGYATKLEEVSLGKDTMTGHWEIMGLNITEPFDTFWNGFPEEILTKIEEFSGRKVIRETNKPYSGTAVIYDFGPRQMETGELIIYTSADPVLQIAAHEDIIPLDELYRICEYARSITLERPALLGRIIARPYVGEPGNFTRTANRRDLAVSPFSPTVLDKLNEAGIDTYAVGKINDIFNGAGINHDMGHNKSNSHGIDTLLKTMGLAEFEKGFSFTNLVDFDALYGHRRNAHGYRDCLHEFDERLPEIIAAMRENDLLLITADHGNDPTYAGTDHTREYIPLLAYSPAFKGNGLIPVGHFADISATVADNFGVETAMIGESFLDKLVEGHHHHHH | 0.631 | 45 | 0.751712 | S | 0.672 | S | -0.12 | S |
| >6d4f2769220c5c4af102647a7321e3f3311383c8 |  |  |  |  |  |  |  |  |
| MSLPPYQVQVRKKMVTVSEWYVRSLGATMNGRRTDDEDALLVHSPLAGFPDARLVGLFDGHAGYEVSRFCATHASSFLGEQTVDLDSAKGVDFRFQAEQWTAGETERFEKGGIMVVIEQKWSRAGHLFFRVHAANVGDSRAFLLRRDGSFVALSADHKPNDPDERQRIESAGGHRLKQEPSLPADAQRVVAVPDVVQTFAEPGDILFLACDGMFEARGMTWSGVAALLKESLEELRGDLPRVAYKLLDSAFTRGMKLRMANQRLKESFGKVTVEPAIVNGERVDLRAVDGAAVHPEGEPVQTLIDVTVFRSATATRSGLKSGSGRRRERQEVEAKGEEGHHHHHH | 0.778 | 57 | 0.526066 | S | 0.774 | In | 0.28 | In |
| >ce324c3838afebe07877d832170373c1bba320b5 |  |  |  |  |  |  |  |  |
| MTQLEEQLHNVETVRSITMQLEMALTKLKKDMMRGGDAKQYQVWQRESKALESAIAIIHYVAGDLK | 0.204 | 91 | 0.85185 | S | 0.523 | In | -0.96 | S |
| >063cc24d90e88a3a5f5ed3f5ca7ba4cc1b56b7d2 |  |  |  |  |  |  |  |  |
| MSLKNYYLEEVVDEIYYKEGKENRELKMDILSIKIENELKIIENLCGNCKRKNTLYEAIKNIKSLLKQYYIVFNGTQDALFLVEMLKDGNFKYVRNNNAYLHEFGLKGEEIINKTPKDVFGEELGKRFCNYYKNCIEGKRVVVFEDDLFLNGKKRVFLTKLLPIVDEDDGVFIVGSREDITKRKEMEIELDRMANYDELTNIPNMRLFFKSFRNTINESKKMDKKFAVLFIDLDWFKEINDNYGHNVGDEVLVCAVKRIYKCLRKGDILGRIGGDEFAAILKDISDREEIEKIVKDIQNSLRKRIKIGDVTCNIDSSIGITIFPEDGEKIEVLMRNSDKAMYKVKNREKGGYRFFNNMIREYNFKNKDGHVHTKYCPHGSDDNIEDYIEEAIKYKLDEISFTEHLPLPENFIDPSPLKDSAMKLEEMESYLKEGHELQEKYKDKIKVNIGVEVDYIEGYEIETELLLNKYGKYLNDGILSVHMIKGNKRYYCIDFSEKEFKKIINDLGSLEELYNKYYDTLIMALKSDLGPYKPKRIGHLNLVRRFNKEFPYNYEKHISKIEEILDLIKEKGYELDFNIAGLRKKECNEFYIEGKVLEMAIEKGIPMVLGSDSHSAKYIKCIKEFLEGHHHHHH | 0.693 | 98 | 0.674614 | In | 0.711 | In | -0.09 | S |
| >a8454d6f92d246b478db1956a9f6030668ec638a |  |  |  |  |  |  |  |  |
| MGEDTDTRKINHSFLRDHSYVTEADVISTVEFNHTGELLATGDKGGRVVIFQREPESKNAPHSQGEYDVYSTFQSHEPEFDYLKSLEIEEKINKIKWLPQQNAAHSLLSTNDKTIKLWKITERDKRPEGYNLKDEEGKLKDLSTVTSLQVPVLKPMDLMVEVSPRRTFANGHTYHINSISVNSDCETYMSADDLRINLWHLAITDRSFNIVDIKPANMEDLTEVITASEFHPHHCNLFVYSSSKGSLRLCDMRAAALCDKHSKLFEEPEDPSNRSFFSEIISSVSDVKFSHSGRYMLTRDYLTVKVWDLNMEARPIETYQVHDYLRSKLCSLYESDCIFDKFECAWNGSDSVIMTGAYNNFFRMFDRNTKRDVTLEASRESSKPRAVLKPRRVCVGGKRRRDDISVDSLDFTKKILHTAWHPAENIIAIAATNNLYIFQDKVNSDMH | 0.72 | 62 | 0.783191 | In | 0.749 | In | 0.06 | In |
| >621bbd0858457bc5b2f724bfe2d851ecf023ef7e |  |  |  |  |  |  |  |  |
| MVTNQKHLEDFGYLKMTQKEGTILPEEYVSIIQHPKGGPKSVTLRENKVSGLKENFIHYLTDTEPGSSGSPVFNDQWTLVALHHSGVPNPEIKDLEHHHHHH | 0.851 | 100 | 0.928189 | S | 0.778 | S | 0.33 | In |
| >89da8125cc7bc5b9a5fc1119d19054d3bfeda04b |  |  |  |  |  |  |  |  |
| SAAAGEGTPSSRGPRRDPPRRPPRNGYGVYVYPNSFFRYEGEWKAGRKHGHGKLLFKDGSYYEGAFVDGEITGEGRRHWAWSGDTFSGQFVLGEPQGYGVMEYKAGGCYEGEVSHGMREGHGFLVDRDGQVYQGSFHDNKRHGPGQMLFQNGDKYDGDWVRDRRQGHGVLRCADGSTYKGQWHSDVFSGLGSMAHCSGVTYYGLWINGHPAEQATRIVILGPEVMEVAQGSPFSVNVQLLQDHGEIAKSESGRVLQISAGVRYVQLSAYSEVNFFKVDRDNQETLIQTPFGFECIPYPVSSPAAGVPGPRAAKGGAEADVPLPRGDLELYLGALHGQEDTPGGLLGSSLF | 0.833 | 83 | 0.835615 | S | 0.542 | S | 1.66 | In |
| >b257aa7200c47569f6a632d240ae0efa3d2e5206 |  |  |  |  |  |  |  |  |
| GGGGGGMKPQLLALKQFVQTEFEKVDFETFRQNFNRCLEREQSTLLIYEDDDYDDQSFFLKPMLSDAFFISSEVVKQLDLLAVLVDNPKGDVKSCCQSFYEALTLFISALAITKGVDVGRYHQQLGKRFGVLTVY | 0.671 | 89 | 0.926232 | S | 0.514 | In | -0.83 | S |
| >ac492242e73036047c1be704991dc1bdd9c64441 |  |  |  |  |  |  |  |  |
| MTNLSDIIEKETGKQLVIQESILMLPEEVEEVIGNKPESDILVHTAYDESTDENVMLLTSDAPEYKPWALVIQDSNGENKIKML | 0.3 | 100 | 0.713653 | S | 0.732 | S | -3.51 | S |
| >cdd1d1dfe1cd7ded2b9893f012eead048ad7958f |  |  |  |  |  |  |  |  |
| MSLEKVGDVDAFAANAVTNGNVNVDIVVGSNAAAKDVVSAANIAAKVGSLMFKEGSATDGNAKVTVSASSKSDNIKNIWDAGNAFAATNEVFLFAAADDDYTGTAAGTGVPNYLLGKTFMDYTVPPAAQVIDLEDLQTLAAVSDADPSGWDIFGTNKDFEAAEAVAAVIRTQQPAAALFNTGADLQVSEDEAFYMSLAFEEDKYGSALADYARLFPGMRIPFLGQEMVVVKLDTDDDLVILGKEVYDGVVKQRGDNYDLGNGYAVKVNNVLTQGAAYKADVQLLKDGKVVASKFDTIDGNGNQITIVYKDIGIVVNDAWEDIGGNYGFAEMVITKDVVTLELGEEYINDWEAYAVRATAAGLIESDSATSTAAVPVVGIALKYVGDDVDKIRKDKTFSIANYAKLDFDEDSGDMAVQFLMDDAKDVTLSIGQKVSVLNAEIKLNELMADAKQSVPMTAPIAKLDAEASLSAANKDLILVGGPVVNTLAKELADKGLIAIDNASPATLAVAKGAANGKDVLVVAGGDRDKTAAAATALIAMLEGHHHHHH | 0.655 | 96 | 0.719681 | S | 0.512 | S | -1.55 | S |
| >3277b09484ea4d51d6c0f4f67f3649536daab8db |  |  |  |  |  |  |  |  |
| GSTIQEVREGLPIEKMADFSLEELLGMAIKAEIGAREFYKSLAEKIKIEALKEKINWLAEEEKKHEALLRKLYSQMFPGKEVVFPKEHIGPELQPVARELEKVQDIIDLIRWAMKAEEIAAEFYLKLEEMVKEEEKKRLMRYLADMERGHYYTLRAEYELLLNWEMYSQMMHIGP | 0.834 | 99 | 0.854998 | S | 0.736 | S | -2.1 | S |
| >753c99a46b4ba1b17fb4dc8768a050265a262e8c |  |  |  |  |  |  |  |  |
| ENQRQQFPVEHVQLLCINCMVAVGHGSDLRKVEGTHHVNVNPNFSNYYNVSRDPVVINKVFKDWKPGGVISCRNCGEVWGLQMIYKSVKLPVLKVRSMLLETPQGRIQAKKWSRVPFSVPDFDFLQHCAENLSDLSLDLEHHHHH | 0.783 | 83 | 0.90616 | S | 0.639 | In | 1.64 | In |
| >368c64802d1d7bc5166b7adc81fa19737b8773fd |  |  |  |  |  |  |  |  |
| GPGSMASGTVMETERVIREKLEASGQYGKMRAMIMEAALRTVSASDSDDSGAHKPLVFHSTVALTDAKRNGVTELSIVQEYLQYLGLQYTARVLQLEAGLQEVPLRTSAELQQQLHIAANNQPGPCLSALVHGGATGLIQSIPATEAPADAAGEEGTKAEEDVDDAASDHHQPGGENTTYFISKWKKRHFVRHNQVSGQQLQIEYLTDCHTVVLDELDSMTVDDCEGGELVISACEGSVFLRGCKNMTIHVACKQLRTRDCEHINLHIFASTDPVVEMSHHISFYPFHLRLPGLQRLFAEARLDPKANRFVHVYDFTSTEPHLPTPHFEVHFPDHHLSMEDRYASYGAPECPPEIEALLALRLMPAASSESGRNKSYDIRTGAQVWAQAGPTPVPAVAAAAAVGAATATSVNAYAESSDEEEDEMASDNDRAGFSAPQSSSKPTTSSSISEEDVQATKREAAQSAMQHIGGLSTAPPLAPTPALGAAAHIATGGGIDNEEYSSFEDGDDDSNADDKYDVEEDEDDF | 0.592 | 88 | 0.597201 | In | 0.979 | In | -1.52 | S |
| >a58c46d5b0fdce0bbbfb9961f6905da9e1f032e0 |  |  |  |  |  |  |  |  |
| MVWMVELKEPFATLWRGKDPFEEVKTLQGEVFRELETRRTLRFEMAGKSYFLKWHRGTTLKEIIKNLLSLRMPVLGADREWNAIHRLRDVGVDTMYGVAFGEKGINPLTRTSFIITEDLTPTISLEDYCADWATNPPDVRVKRMLIKRVATMVRDMHAAGINHRDCYICHFLLHLPFSGKEEELKISVIDLHRAQLRTRVPRRWRDKDLIGLYFSSMNIGLTQRDIWRFMKVYFSAPLKDILKQEQGLLSQAEAKATKIRERTIRKSL | 0.385 | 57 | 0.915879 | In | 0.644 | S | 0.21 | In |
| >9ea6cd47dde94f48fed91ec3866c4d91cd53b38f |  |  |  |  |  |  |  |  |
| MTARYVLTSACIQTGTMALTVSLRQRLLGREQVRFVDEDGEAYTVEVDWKAGVLRGLGPYYQKRRLSANETVLLLFRGEEVELKAAPRPGQRPPAREREARPEEVSPPPESQKRRVRVTPYPKEVLFPHEPLEPPGATEDLRRLGFQLEEGPPWVYRAFSGRRRLTLVLLRLGEGEVERLKPYRLQGAYTALLAPESQRDRVPEGVGFVSPEALTRLARLKGRFPLTPWDLEDLLKEGRVDLEAVEALEDRLAAELSERGAFAALLLLLARKPLGEVFLLADLEAEALEEGLVPEVVRQGVEVLAQPPFLLLKRLSPGEFLLRQSVEEALEDLRAFAEGLAGRLSRARSL | 0.778 | 88 | 0.868087 | S | 0.547 | S | 0.15 | In |
| >781052735789c2a4c742214a7bccc9fc86ef8ab0 |  |  |  |  |  |  |  |  |
| SDPEVTLLLQCPGGGLPQEQIQAELSPAHDRRPLPGGDEAITAIWETRLKAQPWLFDAPKFRLHSATLAPIGSRGPQLLLRLGLTSYRDFLGTNWSSSAAWLRQQGATDWGDTQAYLADPLGVGAALATADDFLVFLRRSRQVAEAPGLVDVPGGHPEPQALCPGGSPQHQDLAGQLVVHELFSSVLQEICDEVNLPLLTLSQPLLLGIARNETSAGRASAEFYVQCSLTSEQVRKHYLSGGPEAHESTGIFFVETQNVRRLPETEMWAELCPSAKGAIILYNRVQGSPTGAALGSPALLPPL | 0.632 | 40 | 0.968404 | S | 0.535 | In | 0.45 | In |
| >e8d3eff4714b5cd001a2eb9972ca90ade3e937d5 |  |  |  |  |  |  |  |  |
| MTEKLNEIVVRKTKNVEDHVLDVIVLFNQGIDEVILKGTGREISKAVDVYNSLKDRLGDGVQLVNVQTGSEVRDRRRISYILLRLKRVY | 0.519 | 100 | 0.782794 | S | 0.625 | S | 0.78 | In |
| >50d2c302224b78fde54dd69d474b795e885ee9b3 |  |  |  |  |  |  |  |  |
| SWKQAVRPCLRLPNFRFDWTSFNVLSAQKRWVKSFSTAVSIKEDPFWSAPLKKVLENHPETQYAYPDSTTVLECARGLVRDDLSSVLVFENVQDKLRWIGIFSERDIVRKVASQGLPLEKTQLKKAYTTRDRVETITVDKTVQDVVDILVSKDVQNIAVLYQKKHGDAFREDCYGVLTSRDLSTFFLSIPENDRSFFEQQTVKDVLESKGLDRSGDNTVYQIHQSVSVDEAIQKMDDHKVGTLLVTQSGK | 0.47 | 76 | 0.849272 | S | 0.563 | In | 0.24 | In |
| >929cb2e6a0876dc1cccb28352ac78bdf4e4bcb0a |  |  |  |  |  |  |  |  |
| MMEQVCDVFDIYAICACCKVESKNEGKKNEVFNNYTFRGLGNKGVLPWKCISLDMKYFRAVTTYVNESKYEKLKYKRCKYLNKETVDNVNDMPNSKKLQNVVVMGRTNWESIPKKFKPLSNRINVILSRTLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFILGGSVVYQEFLEKKLIKKIYFTRINSTYECDVFFPEINENEYQIISVSDVYTSNNTTLDFIIYKKTNNKMLNEQNCIKGEEKNNDMPLKNDDKDTCHMKKLTEFYKNVDKYKINYEN | 0.484 | 95 | 0.689795 | In | 0.522 | In | 1.34 | In |
| >155aff6fb4851775952f8a8f6800fb0187c5e03d |  |  |  |  |  |  |  |  |
| MLVIVRLQDQTLPFELPAGARASQLSNLLSSSGMAFSLHTQGRVLSEAAELNDKMVIDAFVPADGAGLE | 0.594 | 33 | 0.981377 | In | 0.546 | S | -0.51 | S |
| >a872516b1a1215f8c00c76adb43c29a905021f51 |  |  |  |  |  |  |  |  |
| MAPIEKAKKVAKSAKKGKKHPVNSYLKGGILRYSKAQMYKRRALYRLKDKKSPVVEKAKVPIKKVKKIGGPKNGGERTVFLKKSKASYPTKTFVKKRPSKANFSEHKRNTRRNLTPGTVLILLAGRHQGKRVVLLKVLASGLLLVTGPFALNSCPLRRVSQRYVIGTSSKVDLGAFKVPEHLNDAYFRRLKAKKDKKTGEADIFAAKKERFVPNEQRKKDQKEVDAALLKVIKAHPEGKFFAKYLQNMFALHSSQYPHRMRFLEHHHHHH | 0.714 | 95 | 0.620722 | In | 0.818 | In | -3.1 | S |
| >27235c9e0ea8c00f81a8d20f6760f1a87a755bb9 |  |  |  |  |  |  |  |  |
| MAELLLVETPIPQQKHYESKPFPAVISPPSASIPIPALSLPLFTQTIKTQKHYLDSLLHESGAVLFRGFPVNSADDFNDVVEAFGFDELPYVGGAAPRTSVVGRVFTANESPPDQKIPFHHEMAQVREFPSKLFFYCEIEPKCGGETPIVLSHVVYERMKDKHPEFVQRLEEHGLLYVRVLGEDDDPSSPIGRGWKSTFLTHDKNLAEQRAVDLGMKLEWTEDGGAKTVMGPIPAIKYDESRNRKVWFNSMVAAYTGWEDKRNDPRKAVTFGDGKPLPADIVHDCLRILEEECVAVPWQRGDVLLIDNWAVLHSRRPFDPPRRVLASLCK | 0.598 | 89 | 0.550776 | S | 0.613 | In | 0.2 | In |
| >86d14ec5f7eb41ff45ae1aca7da746e02e652011 |  |  |  |  |  |  |  |  |
| MSLYNKVLIIDDHPVLRFAVRVLMEKEGFEVIGETDNGIDGLKIAREKIPNLVVLDIGIPKLDGLEVIARLQSLGLPLRVLVLTGQPPSLFARRCLNSGAAGFVCKHENLHEVINAAKAVMAGYTYFPSTTLSEMRMGDNAKSDEGHHHHHH | 0.679 | 79 | 0.57156 | In | 0.625 | S | 0.47 | In |
| >1f046b40497831b82c075f7785818d1da4eb21d6 |  |  |  |  |  |  |  |  |
| MSQEELRQQIAELVAQYAETAMAPKPFEAGKSVVPPSGKVIGTKELQLMVEASLDGWLTTGRFNDAFEKKLGEYLGVPYVLTTTSGSSANLLALTALTSPKLGVRALKPGDEVITVAAGFPTTVNPTIQNGLIPVFVDVDIPTYNVNASLIEAAVSDKTKAIMIAHTLGNLFDLAEVRRVADKYNLWLIEDCCDALGSTYDGKMAGTFGDIGTVSFYPAKHITMGEGGAVFTQSAELKSIIESFRDWGRDCYCAPGCDNTCKKRFGQQLGSLPFGYDHKYTYSHLGYNLKITDMQAACGLAQLERIEEFVEKRKANFKYLKDALQSCADFIELPEATENSDPSWFGFPITLKEDSGVSRIDLVKFLDEAKVGTRLLFAGNLTRQPYFHDVKYRVVGELTNTDRIMNQTFWIGIYPGLTHDHLDYVVSKFEEFFGLNF | 0.494 | 55 | 0.777223 | In | 0.602 | S | -0.16 | S |
| >148d073ab4eabe5d4e642be47b7b926ac630896d |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHENLYFQGMLYDLTVVQFSKMLKNLNAIFDKAEAFAELKKVDMDVLLNSRLAADQFNLIRQVQIACDTAKVGVARLTGQLETAPKHDDSETTLAELRQRIASVLTYLEGFSEADFANAATIQISQPRWQGKYLTGYEFAIEHAIPNLYFHITTAYGILRHNGVEVGKKDYLGAMPYKAPIL | 0.164 | 73 | 0.531378 | In | 0.656 | S | -0.57 | S |
| >11cc4c785c1467ab3f8a78c51a45c5765b2f38eb |  |  |  |  |  |  |  |  |
| MPHLRFRAVEAHIVESLVPTLLNELSSLLSTARNAFTFELINTQYFAEGGVYPMVEVLWFGREQQTQDQIAQVITDQIRQLLGADSHLAVVFIPLQRTAYYLDGQHF | 0.549 | 15 | 0.85906 | In | 0.512 | S | -1.53 | S |
| >be9550f45ac1bb4d0a0980c3e2ec04353da91e6f |  |  |  |  |  |  |  |  |
| MLPSRSESDDDKYIPSGLLNIAGSTANTNDIKVSEICEFYNDNKPACNVVEKSSRESDVFVDLSGKEAEIIARPAPIAPVSSDASKPSNSPSVASRILTIPPGSHVLGLPGVDPREISTMPSQSHMPTFSPPGPVKRQNVYHHAPLQIPAIYAVPGHPMIHQRPMPYCPPGLLALKQKSLATMQLPVTMINPNAGMYPHVIVPMHPQMAAMAATFNPGLMVVSHPVPVIPIPSNSSQSSQPPMPAPQPTTPEEPRVCAGLRKQLKMEAAARFKAERDAQKAKLKAEKLAEKTKTTVVKKKKEKISGQSNRKFSNFSKDMFVIRLKDVDSFDRNNEIWRIDNHVLLQKFCGVPSLRAPARQFQSTNRMSGYDSRATWRLFIINPDNVEVNEYGSEVTIREYPSINDLRQAKQRAELKDGAFSEIEKSEYGEKVIRHEAKKLSREQKRLERKQRKLQWKRQFTTASSKFQSTSDNPSELNDAEKALSNSRMGERDEAVCRDIIAELLDAIEVNEYDDEDSCMYSDLESSSSEDDEEDAGSLISVAYSTDNEDFKSCKIELFQEDELPEVALELTID | 0.472 | 94 | 0.758485 | In | 0.982 | In | 1.16 | In |
| >dbe4aae469fc3bd34add1e64f70d416222f230fc |  |  |  |  |  |  |  |  |
| MARYLVVAHRTAKSPELAAKLKELLAQDPEARFVLLVPAVPPPGWVYEENEVRRRAEEEAAAAKRALEAQGIPVEEAKAGDISPLLAIEEELLAHPGAYQAIVLSTLPPGPSRWLRLDVHTQAERFGLPVIHVIAQAA | 0.634 | 82 | 0.939992 | S | 0.643 | S | -0.77 | S |
| >196384775eb5732b3666aa0dd919c3cfccd4f72d |  |  |  |  |  |  |  |  |
| GMSDLKSLATKFASDHESGKLLVLPTVWDTWSAGLVEEAGFSGLTIGSHPVADATGSSDGENMNFADYMAVVKKITSAVSIPVSVDVESGYGLSPADLIAQILEAGAVGINVEDVVHSEGKRVREAQEHADYIAAARQAADVAGVDVVINGRTDAVKLGADVFEDPMVEAIKRIKLMEQAGARSVYPVGLSTAEQVERLVDAVSVPVNITAHPVDGHGAGDLATLAGLGVRRVTFGPLWQKWLAATSAQQLKGWA | 0.707 | 76 | 0.892922 | S | 0.654 | In | -0.59 | S |
| >ac64d402735eee4dc877d3d8d2e3d9d0a2f06cbd |  |  |  |  |  |  |  |  |
| MASSDKSSIAWLKKRPIAHRGLHDQNKTCWENTLSAFDAAAKAGFAIECDAHLTRDGGVVVFHDDDLKRLAGCEGRICELTTDEATALHIGGTADHVPTLRQMLDLVDGRVPLVIELKGIEGRDDGLVAAVAKELSPYKGEAAIMSFDHHLIRRFTADAPGIPGGLTAEGTRMQDFEKHFSMLAHGISFVSYNVHHLPNPFVTFVRERLQIPVISWTVRDREMQKYSDLNVDQITFEGFDPRALIALEHHHHHH | 0.629 | 64 | 0.802494 | In | 0.874 | In | -0.85 | S |
| >12d3d3c2c921611f02f87d192cc692e5118209d8 |  |  |  |  |  |  |  |  |
| MGRQKWEWKVGTGLNGFGSVLNDLTNGGTKLTITVTGNKPILLGRTKEAFATPVTSGVDGIPHIAFTDYEGASVELRNPDGETEKGLAYFVLPMKNAEGTKVGSVKVNASYAGALGRGGVTSADGELMSLFAEGSHAIFYGGLPTNVKNSELKGGSAAAARTELFGSLSKNDILGQIQRVNANITSLVNVPGSFNENMAYTDGSVVSVAYALGIANGQTIEATFNQAVTTSTQWSAPLNVAITYYGGGGGGGGGGWMTGDFNGSVDIGGSITADDY | 0.648 | 79 | 0.780785 | In | 0.721 | In | 1.96 | In |
| >016a751cfff8a2e5009e492b7691532598e8b787 |  |  |  |  |  |  |  |  |
| MQTKHIAQATVKVLQSYLTYQAVLRIQSELGETNPPQAIWLNQYLASHSIQNGETFLTELLDENKELVLRILAVREDIAESVLDFLPGMTRNSLAESNIAHRRHLLERLTRTVAEVDNFPSETSNGESNNNDSPPSAAALEHHHHHH | 0.676 | 47 | 0.771965 | S | 0.57 | S | -0.74 | S |
| >b217853c44d7f173aef8a458a393041ec6ad3341 |  |  |  |  |  |  |  |  |
| MSLNTDKLAIIAVTERGRDLAITLTKTVAATIFVPGKHCNEQTNSLTPDFGTAMREIFTKYQALICIMATGIAVRTLAPAIEDKLSDPAVLVMDEHGKFIISLLSGHVGGANELTEQIAMITGGAAVITTATDRANVAAIDNIAKQLNGYLPDFKATTKRINGLLAAGKEVGLYIDEPLDIDTRGFTMEEVSPQVYISTKYKLQVATHERIQLVPKQFILGVGCRKGVSAETIDAAFTHFCEQENIHPRAFREIHSITLKAEEPAILHLAEKWRVPFIVHPAEELQTVAGKYPTSAFVQKTVQVGNVALSSADIGSNGNVVTSRFAENGVTFAAGKLTKNSEVAKEGHHHHHH | 0.58 | 70 | 0.624924 | S | 0.568 | In | 0 | S |
| >4f2c220fb53c2d25ab5b4f3d434b5939df36a09c |  |  |  |  |  |  |  |  |
| MAHHHHHHMSTYGTLLKVTSYGESHGKAIGCVIDGFLSNIEINFDLIQKQLDRRRPNQSKLTSNRNEKDKLVILSGFDENKTLGTPITFLIYNEDIKKEDYNSFINIPRPGHGDYTYFMKYHVKNKSGSSRFSGRETATRVAAGACIEQWLYKSYNCSIVSYVHSVGNIKIPEQVSKELENKNPPSRDLVDSYGTVRYNEKEKIFMDCFNRIYDMNASMLKTDEYNKNTLTIPSIDNTYINVKTNECNINQVDNNHNNYINDKDNTFNNSEKSDEWIYLQTRCPHPYTAVQICSYILKLKNKGDSVGGIATCIIQNPPIGIGEPIFDKLEAELAKMILSIPAVKGIEFGSGFNGTYMFGSMHNDIFIPVENMSTKKESDLLYDDKGECKNMSYHSTIQNNEDQILNSTKGFMPPKNDKNFNNIDDYNVTFNNNEEKLLITKTNNCGGILAGISTGNNIVFRSAIKPVSSIQIEKETSDFYGNMCNLKVQGRHDSCILPRLPPIIEASSSMVIGDLILRQISKYGDKKLPTLFRNM | 0.432 | 51 | 0.732232 | In | 0.979 | In | 1.82 | In |
| >7a91daf452b65a266b579b79a5a2808e82229e1a |  |  |  |  |  |  |  |  |
| MSLDTPFIVFWELTRACMLACKHCRAKAIRKRHPDELTTEECFNVIDQLSEFNPKPLLIITGGDPLMRDDVTEIISHAAEKGFRVAIAFSGTEKATEEKLRELKEAGVARVAVSIDGSDEEKHDSFRGVRGTFRMSMMAIENAKKAGLPFQINTTVTRENIEDLPNIARLCLELGAVMWDVFFVVPTGRAKAEMMPTPQQFEDVLCWLYDLSKKTGLNVKSSAATHLRRIELMRDRGEMPAVGELYYRLLERIEDFPEGEGIVVAGGHGKSLSTDGIRRAIGITDGRGMFFISHIGEVYPSGFLPIVAGNVRNTSLKEIYYSSEIFVNLRDPDRLKGKCGRCEYRKICGGSRARAYAVHGDYLAEEPCCIYIPQSSREGGSHHHHHH | 0.724 | 62 | 0.514646 | In | 0.537 | In | 0.44 | In |
| >58c370d904d3691999b191bc82fc25f33a5dec77 |  |  |  |  |  |  |  |  |
| MAHHHHHHMPDSPTSQRCAGSNNRKPKRVATRKADGGDQPLAVNGPSSPECIRTRTQKLEKELRELVLRNRSRHERLQNMRNRATLSSPPPSGPQSFERAARPSDESKPRSETEGRNKLPNLYKCFDEARTKSLLEYEKNKGSKESCMYSSYIPRDADLTPRGKQRDA | 0.499 | 98 | 0.547315 | In | 0.883 | In | 1.48 | In |
| >04f294e725af24b44a358fd657d6d38b8a0037c8 |  |  |  |  |  |  |  |  |
| MSLADVLSQSEIDALLSALSSGELQPDELPKEEEKQKVKVYDFTSPQKFAKEHIRTLELIHDNYSRIMSNYLTAQLRDNVKVKIETVEQITYEEFIHSVPNPTILTIFRMPPLKGSILYETNPQFIYQAIDILLGGNGAGKYKPREITDIDKNIIMKINQGLIDNLKLAWGEVINVEPEIESLETNPALNQTLAPHEPVALITFSVDVGNSHTYINICIPYLSIEKILDKLVVQYWYQENDEEIVKESRVELRKRLDVVEVPVIAKLGQTEITVEDFLRLSIGDVITLNSKCSDPVPVYIYDNLHYLAAPGILGKNMGIKILDKIDKDVGKYEEGHHHHHH | 0.5 | 92 | 0.778006 | In | 0.597 | S | -0.94 | S |
| >5271d6f144e4edd4f34a61f4844eda3b9d8ddb3c |  |  |  |  |  |  |  |  |
| MTSKLNITLSGPDLAALLCSRVCHDVISPVGAINNGLELLDEGGTDDDALDLIRTSALNASVRLKFARLAFGASGSAGASIDTGEAEKAAQDFAAAEKKAEVSWSGPRAIVPKNRVKLLLNLFLVAYGAIPRGGNVDVLLENPEGDARFEIAVKGRMMRVPAKFVEIYEGRLEEAVDAHSVQPYYTLLLAEEANMTVEYKVHDDRIVFTAKTVAE | 0.716 | 78 | 0.571382 | S | 0.749 | S | -0.47 | S |
| >8be1a9199f122b1e2ace1f1ef48d58a0d8ee7516 |  |  |  |  |  |  |  |  |
| MAHHHHHHMAAGNSISVKVDVPSQVKGQGTLEMSYYIYPITMRLPGFMSDARFNRRYTDFETLRGQLCATYWYCIVPPIPEKESVQDKLGKLPRMVASAKETTASEGDLLEYRRISLRRFLQRLAYHPILGKSDLLQKFTNDNEWRQCIRDPVKPPRFIVSSSLEEIARSWVPSSSASGAGAQGSGGAAGGGGVSQTGAAYQSALTQEPVDEATWRATSEYIGELESNLKNMRNLLEALVDRHRRAASAVSNFAASFGLLANGEEDAELRGAIEGVRDCGRKVADVYSKHADNESTRLVSTLSFYVGMCAAVRETLNHMFSAHQYLRNLQKKGQELQASAMRAQSANQVQVQSELHFVNEQRAHLEEDLMGAEKTFSEEFVLFHENKQYDAKDMLKKFGMLELSFSESMKQEWDALRPMLESLGT | 0.381 | 38 | 0.747861 | In | 0.973 | In | 0.65 | In |
| >5958e89cd56824f6f4446956b068fb69e9374f69 |  |  |  |  |  |  |  |  |
| GSGNSHTTPWTNPGLAENFMNSFMQGLSSMPGFTASQLDDMSTIAQSMVQSIQSLAAQGRTSPNKLQALNMAFASSMAEIAASEEGGGSLSTKTSSIASAMSNAFLQTTGVVNQPFINEITQLVSMFAQAGMNDVSA | 0.808 | 72 | 0.521562 | In | 0.568 | In | 1.73 | In |
| >4530ffe487c80f2a862c6ecd94986c3791a5cc58 |  |  |  |  |  |  |  |  |
| MPETDFEEKMILIRRTARMQAGGRRFRFGALVVVGDRQGRVGLGFGKAPEVPLAVQKAGYYARRNMVEVPLQNGTIPHEIEVEFGASKIVLKPAAPGTGVIAGAVPRAILELAGVTDILTKELGSRNPINIAYATMEALRQLRTKADVERLRKGEAHAQAQG | 0.407 | 55 | 0.657521 | In | 0.699 | S | 1.04 | In |
| >1113748b8149963031ffa12412bd3ca968b20a2f |  |  |  |  |  |  |  |  |
| MDDMQVYIANLGKYNEGELVGAWFTFPIDFEEVKEKIGLNDEYEEYAIHDYELPFTVDEYTSIGELNRLWEMVSELPEELQSELSALLTHFSSIEELSEHQEDIIIHSDCDDMYDVARYYIEETGALGEVPASLQNYIDYQAYGRDLDLSGTFISTNHGIFEIVY | 0.248 | 66 | 0.565796 | In | 0.859 | S | -5.43 | S |
| >7376f7095ae00ab405774fcc84502821082d1b6f |  |  |  |  |  |  |  |  |
| MASSIQGQENVMSQSEFDSALPNGIGLAPYLRMKQEGMTENESRIVEWLLKPGNLSCAPAIKDVAEALAVSEAMIVKVSKLLGFSGFRNLRSALEDYFSQSEQVLPSELAFDEAPQDVVNKVFNITLRTI | 0.662 | 71 | 0.810369 | S | 0.705 | S | 0.07 | In |
| >8eab678ca3338246b2e8d56f6783527d2d54711e |  |  |  |  |  |  |  |  |
| MEQRRLASTEWVDIVNEENEVIAQASREQMRAQCLRHRATYIVVHDGMGKILVQRRTETKDFLPGMLDATAGGVVQADEQLLESARREAEEELGIAGVPFAEHGQFYFEDKNCRVWGALFSCVSHGPFALQEDEVSEVCWLTPEEITARCDEFTPDSLKALALWMKRNAKNEAVETETAE | 0.349 | 80 | 0.854207 | In | 0.637 | S | -2.75 | S |
| >ba2a10b463c801951bb0a03194e0ef3cfb685099 |  |  |  |  |  |  |  |  |
| MSVNKSKNLVTDQDLLDVVNFFNRPLHALIAEVSKTTSDLELVRSTTQGIENICLLLDLVGTECIKDASAAKTSVLEHHHHHH | 0.666 | 98 | 0.786639 | S | 0.5 | S | -1.23 | S |
| >0e7b0ffaf0a0b6828445914a9cf39db4a8ebf043 |  |  |  |  |  |  |  |  |
| GMAYTTTVKLDGDTKTYTLSPTVKKYTLMDLGFVKGRSGAFSFERSLDPTSPYQAAFKLKMTVNADLTGFKMTTVTGNGVQRANIFKNDAHPEAVEQLRYILANFIERDILTTD | 0.813 | 21 | 0.700697 | In | 0.539 | In | 0.9 | In |
| >7a81edf5ebe689a8a2bc261f5597e745cf0f6029 |  |  |  |  |  |  |  |  |
| GAGDVVTRDVNKLPVAAREMIGKHFSQTKVAYIKIEKDLFQTTSYDVKLADGIELEFNSKGEWLEIDCKNKSVPSTFIPQAISKYMKANYNGHKTVKIERNRKGYELTLENGLEVDFDQFGGFLKLSD | 0.811 | 92 | 0.734803 | S | 0.71 | S | 0.66 | In |
| >3673a7f59bf93aad7c8317181762482216448f1a |  |  |  |  |  |  |  |  |
| MNDDVEFRYADFLFKNNNYAEAIEVFNKLEAKKYNSPYIYNRRAVCYYELAKYDLAQKDIETYFSKVNATKAKSADFEYYGKILMKKGQDSLAIQQYQAAVDRDTTRLDMYGQIGSYFYNKGNFPLAIQYMSKQIRPTTTDPKVFYELGQAYYYNKEYVKADSSFVKVLELKPNIYIGYLWRARANAAQDPDTKQGLAKPYYEKLIEVCAPGGAKYKDELIEANEYIAYYYTINRDKVKADAAWKNILALDPTNKKAIDGLKMKLEHHHHHH | 0.592 | 76 | 0.906303 | In | 0.769 | In | 0.5 | In |
| >78bd5d21e7195b7381125eb463a4547d7b04c719 |  |  |  |  |  |  |  |  |
| MSLGKISFPVGVLFSGSGSYAQPARQGFRGAMTAIAHINASRRFPFNLQAHHFDPAGEADRYASLCRQLIRERDVRHVVGCTTSWSRKEAIPVVEKLDALLWYPCVYEGFEVSENLIYVAACANQHLVPLLDYIAPRFGSRAMLVGANYIWGWENNRIARDILHRSGGEVLGERFVSIGDTDIDHLIDEVREKRPDFILNNLIGPSSYAFLRAYQALGEADDRFRPEKCPIISCNLYEGEITGLGHAAAGHFTVSCYFRTLQSPENDSFLKTLAALDPGAIVDAFYAQAFSAVVMIAEAIMRCGSDDADLVRGALRGQSVDTPLGAISVDRWTNHVELPAHIGRARADGSFEIVKRSHEAIAPDPFLTSTPLVRPLGRDEVRPELRVVKEGHHHHHH | 0.654 | 32 | 0.794279 | In | 0.565 | In | 0.38 | In |
| >38e6971de0f41b9102ff0a0a3aced49df2dea8ac |  |  |  |  |  |  |  |  |
| MSLALKLTKAMPVLYVSDVQAAADFYRVKLGFTIDFLHGQPAFYASVSRDEACIHLRFVHQPMYVAGLREKEQVIAAFLSVANVKGLFAEYQTRKVPFVRRLKKEPWAQSSFIVSDPDGNALCFAGEGHHHHHH | 0.457 | 71 | 0.645948 | In | 0.531 | S | 0.71 | In |
| >76a99c7a5f3eb6115f1fae3815fcb7e8bf1df40a |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMKGIVLAGGSGTRLYPITRAVSKQLLPIYDKPMIYYPLSVLMLAGIRDILIISTPRDLPLYRDLLGDGSQFGVRFSYRVQEEPRGIADAFIVGKDFIGDSKVALVLGDNVFYGHRFSEILRRAASLEDGAVIFGYYVRDPRPFGVVEFDSEGRVISIEEKPSRPKSNYVVPGLYFYDNQVVEIARRIEPSDRGELEITSVNEEYLRMGKLRVELMGRGMAWLDTGTHDGLLEASSFIETIQKRQGFYIACLEEIAYNNGWITREDVLEMAEKLEKTDYGKYLRDLAEGNFHG | 0.384 | 47 | 0.741888 | In | 0.661 | S | 0.54 | In |
| >e184a6bca1fe2ab822eb56fc84377338cd13d83c |  |  |  |  |  |  |  |  |
| AIAISAPRTATDRTKLPYCHESFHNLQELRHSASLANKVFIQRDYTDGTVCKFQTKFPSELDSRIERTLFEDTVKTLNTYYAEAEKIGGQSYIEGCLACLTVYLIFLCIETRYEKVLKKISRYIQEQNEKVYAPRGLLITDPIERGMRVIEISVYEDRGSSGSSSGSSTTSSSGR | 0.732 | 53 | 0.779389 | In | 0.585 | In | 0.92 | In |
| >8937dc1bd7cfe5315e76db88dd30d267c3ae0206 |  |  |  |  |  |  |  |  |
| ASWSHPQFEKIEGRMQNDILQVVSQGWKYFKGNFYYFSLIPKTWYSAEQFCVSRNSHLTSVTSESEQEFLYKTAGGLIYWIGLTKAGMEGDWSWVDDTPFNKVQSARFWIPGEPNNAGNNEHCGNIKAPSLQAWNDAPCDKTFLFICKRPYVPSEP | 0.786 | 35 | 0.88959 | S | 0.643 | S | 1.48 | In |
| >48b9388abbeb28ab8fadabf23c085e01dd4c82ec |  |  |  |  |  |  |  |  |
| MSLSHCTATTLIDDARTRVTRFDFEPGQNTGWHRHEMDYVITAITDCHMRLVHPDDSVTEVTVPAGTAYARDAGVEHDVINAGDTAMSFVEIELKPRADEGHHHHHH | 0.777 | 91 | 0.870617 | S | 0.548 | S | -3.05 | S |
| >793bb8118f3a0929decdeafc7a01d34acd745d57 |  |  |  |  |  |  |  |  |
| MSLSDSRPIFDWEQIIRKKAVVYIGLDALSDSEVASAVGNSMFADLVSVAGHIYKHGIHAGLPGEGESKVPVNLHCDEFNELMGDEFIPLINKGGGAGMQVTAYTQTSSDIEARIGNAAKTAQVQGNFNNLIMLRVRENRTAELLTTQLPQVEIYTKTLVSGHQDTDISAGQDFTSSTQDRVGTVKVPLLEPADVVTLPKGQAFALLEGGQLWKIRMPLPADDADDTLMPQSIAKIAEEMRRNYHSGEAWWNDAPGIVPAGGVRGEGHHHHHH | 0.597 | 57 | 0.515302 | In | 0.547 | S | -0.22 | S |
| >2fab7039c3aa440456473e049bba31c722c6b0bd |  |  |  |  |  |  |  |  |
| MDGGDDGNLIIKKRFVSEAELDERRKRRQEEWEKVRKPEDPEECPEEVYDPRSLYERLQEQKDRKQQEYEEQFKFKNMVRGLDEDETNFLDEVSRQQELIEKQRREEELKELKEYRNNLKKVGISQENKKEVEKKLTVKPIETKNKFSQAKLLAGAVKHKSSESGNSVKRLKPDPEPDDKNQEPSSCKSLGNTSLSGPSIHCPSAAVCIGILPGLGAYSGSSDSESSSDSEGTINATGKIVSSIFRTNTFLEAP | 0.746 | 99 | 0.971577 | S | 0.673 | In | 0.71 | In |
| >a1ea402a8249c1476d8731aa6e417f8419348a84 |  |  |  |  |  |  |  |  |
| MATDFSKLSKYVETLRVKPKQSIDLKKDFDTDYDHKMLTKEEGEELLNLGISKLSEIQEKLYASGTKSVLIVFQAMDAAGKDGTVKHIMTGLNPQGVKVTSFKVPSKIELSHDYLWRHYVALPATGEIGIFNRSHYENVLVTRVHPEYLLSEQTSGVTAIEQVNQKFWDKRFQQINNFEQHISENGTIVLKFFLHVSKKEQKKRFIERIELDTKNWKFSTGDLKERAHWKDYRNAYEDMLANTSTKQAPWFVIPADDKWFTRLLIAEIICTELEKLNLTFPTVSLEQKAELEKAKAELVAEKSSD | 0.642 | 93 | 0.678464 | In | 0.607 | In | -0.06 | S |
| >37ca1b751d9fd3a3f94bc344a517b8a7c9923bd3 |  |  |  |  |  |  |  |  |
| MRFWQYINGVDMRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWMLKLIVKNGYVIDPSQNLEGEFDILVENGKIKKIDKNILVPEAEIIDAKGLIVCPGFIDIHVHLRDPGQTYKEDIESGSRCAVAGGFTTIVCMPNTNPPIDNTTVVNYILQKSKSVGLCRVLPTGTITKGRKGKEIADFYSLKEAGCVAFTDDGSPVMDSSVMRKALELASQLGVPIMDHCEDDKLAYGVINEGEVSALLGLSSRAPEAEEIQIARDGILAQRTGGHVHIQHVSTKLSLEIIEFFKEKGVKITCEVNPNHLLFTEREVLNSGANARVNPPLRKKEDRLALIEGVKRGIIDCFATDHAPHQTFEKELVEFAMPGIIGLQTALPSALELYRKGIISLKKLIEMFTINPARIIGVDLGTLKLGSPADITIFDPNKEWILNEETNLSKSRNTPLWGKVLKGKVIYTIKDGKMVYKD | 0.59 | 85 | 0.677148 | In | 0.648 | S | 0.49 | In |
| >b9d94691b64150c96e4f149ecff583443dde046d |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHMRTLNKDEHNYIKQIANIHETLLSQVESNYKCTKLSIALRYEMICSRLEHTNDKIYIYENEGQLIAFIWGHFSNEKSMVNIELLYVEPQFRKLGIATQLKIALEKWAKTMNAKRISNTIHKNNLPMISLNKDLGYQVSHVKMYKDID | 0.095 | 78 | 0.887133 | In | 0.534 | S | 1.06 | In |
| >89494412eaaabcceb86a38e421c7a4e9214922d5 |  |  |  |  |  |  |  |  |
| MVSSEFEEAYRELEEGKLESALEKFLKIAEKEQSVEVWVNIGNIYRRMNLLAKAIESYKRALEIDQKNPVVLFNLGSAYYQMGKFFEALKLLEKAEEQGLTDPRVKIVKALCKIKLNLPDPMEGLDEDQKRIVKDLMKNG | 0.537 | 99 | 0.768132 | S | 0.802 | S | -0.37 | S |
| >f2f6fb80d3e8117b58fba865c51c06f510b1b8c6 |  |  |  |  |  |  |  |  |
| MHAEKLGSEIKKIRVMRGLTQKQLSDNICHQSEVSRIESGAVYPSMDILQGIAAKLQVPIIHFYEVLIYSDIERKKQFKDQIIMLCKQKRYKEIYNKVWNELKKEEYHPEFQQFLQWQYHVAAYILKKIDYEYCILELKKLLNQQLAGIDVYQNLYIENAIANIYAENSYFKKSIELFEDILKQLEVLHDNEEFEVKVRYNHAKALYLDNQYEESLYQVNKAIEISCRINSMALIGQLYYQRGECLGKLEYDGAEVEDAYKKASFFFDILEMHTYKEALVNKISR | 0.305 | 97 | 0.850771 | In | 0.648 | S | -0.85 | S |
| >ad9c7ae6471e2725377acdf817f3f7fe907b41d9 |  |  |  |  |  |  |  |  |
| MHGILGACGRLRLEPATPLTPLLCAERDECRAHPCRNGGSCRNLPGAYVCRCPAGFVGVHCETEVDACDSSPCQHGGRCESGGGAYLCVCPESFFGYHCETVSDPCFSSPCGGRGYCLASNGSHSCTCKVGYTGEDCAKELFPPTALKMERVEESGVSISWNPPNGPAARQMLDGYAVTYVSSDGSYRRTDFVDRTRSSHQLQALAAGRAYNISVFSVKRNSNNKNDISRPAVLLARTRPRPVEGFEVTNVTASTISVQWALHRIRHATVSGVRVSIRHPEALRDQATDVDRSVDRFTFRALLPGKRYTIQLTTLSGLRGEEHPTESLATAPTHVWTRPLPPANLTAARVTATSAHVVWDAPTPGSLLEAYVINVTTSQSTKSRYVPNGKLASYTVRDLLPGRRYQLSVIAVQSTELGPQHSEPAHLYIITSPRDGADRRWHQGGHHPRVLKNRPPPARLPELRLLNDHSAPETPTQPPRFSELVDGRGRVSARFGGSPSKAATVRSHVPGNCSENPCQNGGTCVPGADAHSCDCGPGFKGRRCELACIKVSRPCTRLFSETKSFPVWEGGVCHHVYKRVYRVHQDICFKESCESTSLKL | 0.616 | 90 | 0.630837 | S | 0.973 | In | 2.64 | In |
| >62c4f6e654f9195c9825c254f9597545ec1a3542 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMFGPFKLTSPVAGGLLWKIPWRMSTHQKTRQRERLRNVDQVIKQLTLGLHVQRCQDKGLTYQEAMESKKKYKPRSKSLRLLNKPSVFPKENQMSSKDKYWTFDKKAVGYRKGIHKVPKWTKISIRKAPKFF | 0.444 | 78 | 0.52903 | S | 0.661 | In | -2.04 | S |
| >48b799bf6930c0db84b739389c592b1e83f81cea |  |  |  |  |  |  |  |  |
| MSKSNTYRMLVLLEDDTKINKEDEKFLKGKPGKMHEFVDELILPFNVDELDELNTWFDKFDAEICIPNEGHIKYEISSDGLIVLMLDKEIEEVVEKVKKFVEENN | 0.495 | 100 | 0.745476 | S | 0.766 | S | -3.33 | S |
| >8705ceb71f6ea95549d1bb19ac3b84e572e4d95d |  |  |  |  |  |  |  |  |
| MSLSTLLIKNASFVATMDKNENELRDVSIFCENGVIKEVGDCKNIFKNIDKVIDANDLIVIPGLINTHHHLFQNLTRVYKPAQNKPLFGWLTSLYPIWQNIIPSDIYISSLIGISEMVLTGCTTTSDHLYLFPNGSKLEDQIEAAKLVGCRFHAARGFMSVGESKGGLPPDSLTENENFIMKDCQRVVEEFNNPDPFSMLRVVLAPCSPFSVSENLMKITAEMARGYNVTLHTHLAENDEDIEYSMKHFNKSPGEYAKDLGWLGDDVWHAHCVKLSRSESKLFSKTCTGIAHCPTSNMRLASGIAPVRDWIDLGVKVGLGVDGSSSNDSGHLLAEARQTMLLQRVKHGAESFSAREALKIATKGGAETLCRRDIGGNFSWKSSRFCYLEGHHHHHH | 0.606 | 65 | 0.764897 | In | 0.933 | In | 0.93 | In |
| >2ca4e92767c9e04d9ddef29b8671464a1c623771 |  |  |  |  |  |  |  |  |
| MAHHHHHHMSKHSSSASGSSHSRTIGEEGDDCMSPPSEEEAALDDEAVAWVPDEIEFIAARRRLAIVNCDWDHVRAVDLYAILFHALPLGGQLLDVSVYRSEFGKRMLEHERMHGPDLWVHDGDADVAADGEGGAEEGSGGAMPEMVGLPEDVSEDAVSEPRSDGWADDDPRMMTEQGEDGEWFSDGKYRRYEMDRMKYYYAVATFDSADTAAMVYNELDGMDIEASGVILDLRYVDDEEMFESPVSRADRIPANFKPLASFKMSALSQSKFRISWDQDDVFRHQSLQDSFTGTTEEDDLAAYLAPADSDDEMDSNPLDQEKKAREKRNIRRRYAALLEEVGGIPEELEGDRTGDGLGDHADLGSNGLGNFSNRDVDDLDDSSDDDSINHFSDVEMDGHDADEGGDEEEDDEGSVVGDMEATLDMEADTKAASLQRDARLRQMKSADLAKQAELKYKLRRKEMKKSKKDMLRQEREAGKAYQAAHEAEDRQKLRELMGTGDGAVRVSGKERRKAHAKQVKERLAEERAVKKKMRAANQLGVTQQVQHTRREQEAEKAVGQIDDRFKSKLLSDPRFHLEVSQKDKRVADDVTQLASTVAKARQGKRGRPDGDGKHTTAGNSVDDTVDFFLAKKKKALK | 0.666 | 92 | 0.894312 | S | 0.524 | In | -1.96 | S |
| >e783126165d6eb0a887e84db7e3bcbee9c4732a3 |  |  |  |  |  |  |  |  |
| MTSPSHASDRGGGDGDSVENQSPELRKDPVTNRWVIFSPARAKRPTDFKSKSPQNPNPKPSSCPFCIGREQECAPELFRVPDHDPNWKLRVIENLYPALSRNLETQSTQPETGTSRTIVGFGFHDVVIESPVHSIQLSDIDPVGIGDILIAYKKRINQIAQHDSINYIQVFKNQGASAGASMSHSGSQMMALPVVPPTVSSRLDGTKDYFEETGKCCLCEAKSKHFVIDESSHFVSVAPFAATYPFEIWIIPKDHSSHFHHLDDVKAVDLGGLLKLMLQKIAKQLNDPPYNYMIHTSPLKVTESQLPYTHWFLQIVPQLSGVGGFEIGTGCYINPVFPEDVAKVMREVSLT | 0.673 | 93 | 0.720353 | In | 0.587 | S | 1.25 | In |
| >fa4d0f35375e7ab6a1efe130f696311301791254 |  |  |  |  |  |  |  |  |
| GMRADALKRREHIITTTCNLYRTHHHDSLTMENIAEQAGVGVATLYRNFPDRFTLDMACAQYLFNVVISLQLQAISTFPTDPEGVWTSFNQLLFDRGLGSLVPALAPESLDDLPDEVSALRRTTEKNTTTLINLAKQHGLVHHDIAPGTYIVGLITISRPPITALATISENSHKALLGLYLSGLKHGMMANIGEHDGKS | 0.581 | 21 | 0.5 | S | 0.597 | S | 0.22 | In |
| >37f1528af9f3a3f763f4b4c0dab1949310dd51c5 |  |  |  |  |  |  |  |  |
| MSLVNKQTKNIGVILPDISNPYFISLITQIQKFALDYMFSTILFNTMLAEPNNKNSKHPLTEEDYLKIILEKQVDGLLILGGEIDKEVVSKDYINALNQLNREIPVVVIGSKIPELNCLFIERNLKKGITTLVSHLTALDHKNIGFIGGEAGVKITSYRLESFKAAMASYNHSVNEDWIVLSDYYTADGYAAMTKLLENNTTLPTALVAINDNVAIGAIRAINDAKLSCPEDIAIVSCDQFMNGDYQTPRLTSMDQHNEYLGKMALLQLISAINGQVEPMIINHNPELIIRESCGSKEGHHHHHH | 0.56 | 57 | 0.673142 | In | 0.683 | In | 0.08 | In |
| >07e74fa6170ee794c2df61ea61da0b8da0d2bf80 |  |  |  |  |  |  |  |  |
| SLNSTIKNIEIIEMGEKSRETSSPWSSTILLVKITSADGLVGYGEAPTTLMTLPVLESMKEVARVFNGKDFFNVERNVFDFYRNSFYLPVSMEATSALSAFEIASWDLIGKQLGTPVYKLLGGEVNQKMRAYANGWYNDCVSPDDFLKKAKEVVKMGFTAMKFDPFGDNYDSITNDGLENARNIVGTLRSELGDKVDLLIEYHGRFSKIAAIKAGMALEEYHPFFYEEPLHPDLDHDLLDLKNYYRVPIALGERVLNKKIFARFISQKLVDIIQPDLTNSGGILEGKKIAAIADGFGIPVAPHNAFGPIQTAATLNLDTTITNFIIQESFEMFWPDWKKKLVSSGYKLENGYFTLTNEPGVCKVNEDIVEKYQVSGMEPFDDKEPPWVVSGTFKPYRQK | 0.533 | 62 | 0.667519 | S | 0.594 | S | 0.34 | In |
| >e4f9f44ccc56b84324ccda80e4076d3f2e51aab1 |  |  |  |  |  |  |  |  |
| SLAEKIKQVVEKMIRKHGTNNPFEIASQKGIVLMFESLGKIYGYHHTFHRIQIIHINDELNEPMKRFVCAHELGHAVLHPELSTSFLRKNTLFCMDKIEREANEFAVELLLSDEVLYTYQGTDATIYEAAAAYGIPREVVHLKNFDF | 0.316 | 87 | 0.722294 | In | 0.556 | S | -0.88 | S |
| >b403d4353bf95dff0ec6feb4603255ecad555fe2 |  |  |  |  |  |  |  |  |
| MSLEAVQEADLLTAAAVALNRHAALLRELGSVFAAAGHELYLVGGSVRDALLGRLSPDLDFTTDARPERVQEIVRPWADAVWDTGIEFGTVGVGKSDHRMEITTFRADSYDRVSRHPEVRFGDCLEGDLVRRDFTTNAMAVRVTATGPGEFLDPLGGLAALRAKVLDTPAAPSGSFGDDPLRMLRAARFVSQLGFAVAPRVRAAIEEMAPQLARISAERVAAELDKLLVGEDPAAGIDLMVQSGMGAVVLPEIGGMRMAIDEHHQHKDVYQHSLTVLRQAIALEDDGPDLVLRWAALLHDIGKPATRRHEPDGGVSFHHHEVVGAKMVRKRMRALKYSKQMIDDISQLVYLHLRFHGYGDGKWTDSAVRRYVTDAGALLPRLHKLVRADCTTRNKRRAARLQASYDRLEERIAELAAQEDLDRVRPDLDGNQIMAVLDIPAGPQVGEAWRYLKELRLERGPLSTEEATTELLSWWKSRGNREGHHHHHH | 0.609 | 54 | 0.713486 | In | 0.85 | In | -0.37 | S |
| >a863f007184482d62293739eb4765ba7292da0b1 |  |  |  |  |  |  |  |  |
| MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKKITLKTPLVSSPMDTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFEAKARHGFCGIPITDTGRMGSRLVGIISSRDIDFLKEEEHDCFLEEIMTKREDLVVAPAGITLKEANEILQRSKKGKLPIVNEDDELVAIIARTDLKKNRDYPLASKDAKKQLLCGAAIGTHEDDKYRLDLLAQAGVDVVVLDSSQGNSIFQINMIKYIKDKYPNLQVIGGNVVTAAQAKNLIDAGVDALRVGMGSGSICITQEVLACGRPQATAVYKVSEYARRFGVPVIADGGIQNVGHIAKALALGASTVMMGSLLAATTEAPGEYFFSDGIRLKKYRGMGSLDAMDKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPYLIAGIQHSCQDIGAKSLTQVRAMMYSGELKFEKRTSSAQVEGGVHSLHSYEKRLF | 0.456 | 69 | 0.699541 | In | 0.581 | S | 0.53 | In |
| >305acb952161dc1f7655fa5d7fc4e3544713632d |  |  |  |  |  |  |  |  |
| MLNCIALLAVLLVTPLAWADDRDKANDLLRDATITFNEFVADPNMGWFRDNVKDARAVVIAPQVLKLGFIFGGSGGNAVVLAKDKQTGEWGYPAFYTAGAVTAGLQIGGELTDVIMMVMTESGMNALLSSKFQLGADASIAAGPVGTGSQVATVDILQFSRAKGIYGGLTLEGAVITPREDLNAAFYGRIVDPVDILIRHTVTNPLADRLRAAVAKATLSRPVLHLEHHHHHH | 0.558 | 25 | 0.693075 | In | 0.859 | S | 0.07 | In |
| >8d37c3ced6404833c468c22cad900f7bda7d6efc |  |  |  |  |  |  |  |  |
| SAWVLKMDEVIESGLVHDFDASLSGIGQELGAGAYSMSDVLALPIFKQEDSSLPLDGETEHPPFQYVMCAATSPAVKLHDETLTYLNQGQSYEIRMLDNRKMGDMPEINGKLVKSIIRVVFHDRRLQYTEHQQLEGWKWNRPGDRLLDLDIPMSVGIIDTRTNPSQLNAVEFLWDPAKRTSAFIQVHCISTEFTPRKHGGEKGVPFRIQVDAFKQNENGEYTDHLHSASCQIKVFKPKGADRKQKTDREKMEKRTAHEKEKYQPSYDTTILTEMRLEPIIEDAVEHEQKKSSKRTLPADYGDSLAKRGSCSPWPDAPTAYVNNSPSPAPTFTSPQQSTCSVPDSNSSSPNHQGDGASQTSGEQIQPSATIQETQQWLLKNRFSSYTRLFSNFSGADLLKLTKEDLVQICGAADGIRLYNSLKSRSVRPRLTIYVCREQPSSTVLQGQQQAASSASENGSGAPYVYHAIYLEEMIASEVARKLALVFNIPLHQINQVYRQGPTGIHILVSDQMVQNFQDESCFLFSTVKAESSDGIHIILK | 0.491 | 69 | 0.704733 | In | 0.899 | In | 0.71 | In |
| >b1778678ef40e9c2cfe45408b3e947a7dc0469ab |  |  |  |  |  |  |  |  |
| MSQTQISGTRIKLPSGKDAGLVDILSFCYGLSETDVQVLIALAKSEARGTEDLESDLKLSKASINRSLNKLLEMGLVMRIKEPGNKAGRPRYLYKTKDYNELKQKILSDIKDCAEKMAQLVDQEFSSS | 0.461 | 94 | 0.734675 | S | 0.722 | S | 1.36 | In |
| >59f5d5b79f942ecd4b314c8a9cfd592cd103efd3 |  |  |  |  |  |  |  |  |
| MTGCSHRFYYSHMIQTSVRSFEVGEDLASMAVDERISLLRSRMQSISKSGDFSLDYNCKTADKNIIPLSDPLSHVLPWGGLPRGMIVESTITPLLAILFIAQVSGSGRRVGVVGWPDLNYAGVLGYGGCYERIFAVPQQERTSLRVVTALAHGCDLVITRAGPTPRTYTPLQTQRFRNSLRSDAGCVIMMGDHVVSPAARLASAVVGYHGIGKGTGRIKAVEITVTGIAKGFYRTSRVIVGKHIAPAAEKTTMKVVLEHHHHHH | 0.33 | 28 | 0.583065 | S | 0.835 | In | 1.8 | In |
| >c39488d92deee2a150453fe540ab7fb53d412fa7 |  |  |  |  |  |  |  |  |
| GSHMLEDPVVLQRRDWENPGVTQLNRLAAHPPFASWRNSEEARTDRPSQQLRSLNGEWRFAWFPAPEAVPESWLECDLPEADTVVVPSNWQMHGYDAPIYTNVTYPITVNPPFVPTENPTGCYSLTFNVDESWLQEGQTRIIFDGVNSAFHLWCNGRWVGYGQDSRLPSEFDLSAFLRAGENRLAVMVLRWSDGSYLEDQDMWRMSGIFRDVSLLHKPTTQISDFHVATRFNDDFSRAVLEAEVQMCGELRDYLRVTVSLWQGETQVASGTAPFGGEIIDERGGYADRVTLRLNVENPKLWSAEIPNLYRAVVELHTADGTLIEAEACDVGFREVRIENGLLLLNGKPLLIRGVNRHEHHPLHGQVMDEQTMVQDILLMKQNNFNAVRCSHYPNHPLWYTLCDRYGLYVVDEANIETNGMVPMNRLTDDPRWLPAMSERVTRMVQRDRNHPSVIIWSLGNESGHGANHDALYRWIKSVDPSRPVQYEGGGADTTATDIICPMYARVDEDQPFPAVPKWSIKKWLSLPGETRPLILCEYAHAMGNSLGGFAKYWQAFRQYPRLQGGFVWDWVDQSLIKYDENGNPWSAYGGDFGDTPNDRQFCMNGLVFADRTPHPALTEAKHQQQFFQFRLSGQTIEVTSEYLFRHSDNELLHWMVALDGKPLASGEVPLDVAPQGKQLIELPELPQPESAGQLWLTVRVVQPNATAWSEAGHISAWQQWRLAENLSVTLPAASHAIPHLTTSEMDFCIELGNKRWQFNRQSGFLSQMWIGDKKQLLTPLRDQFTRAPLDNDIGVSEATRIDPNAWVERWKAAGHYQAEAALLQCTADTLADAVLITTAHAWQHQGKTLFISRKTYRIDGSGQMAITVDVEVASDTPHPARIGLNCQLAQVAERVNWLGLGPQENYPDRLTAACFDRWDLPLSDMYTPYVFPSENGLRCGTRELNYGPHQWRGDFQFNISRYSQQQLMETSHRHLLHAEEGTWLNIDGFHMGIGGDDSWSPSVSAEFQLSAGRYHYQLVWCQK | 0.483 | 15 | 0.634167 | S | 0.578 | S | -0.12 | S |
| >d158c498b21fbb699ecb2e6faac9b07e073fb84e |  |  |  |  |  |  |  |  |
| SRNVPFPYAETDVADLQARMTAGELDSTTLTQAYLQRIAALDRTGPRLRAVIELNPDALKEAAERDRERRDGRLRGPLHGIPLLLKDNINAAPMATSAGSLALQGFRPDDAYLVRRLRDAGAVVLGKTNLSEWANFRGNDSISGWSARGGQTRNPYRISHSPCGSSSGSAVAVAANLASVAIGTETDGSIVCPAAINGVVGLKPTVGLVSRDGIIPISFSQDTAGPMARSVADAAAVLTAIAGRDDADPATATMPGRAVYDYTARLDPQGLRGKRIGLLQTPLLKYRGMPPLIEQAATELRRAGAVVVPVELPNQGAWAEAERTLLLYEFKAGLERYFNTHRAPLRSLADLIAFNQAHSKQELGLFGQELLVEADATAGLADPAYIRARSDARRLAGPEGIDAALAAHQLDALVAPTTGVAWPIRSEGDDFPGESYSAAAVAGYPSLTVPMGQIDGLPVGLLFMGTAWSEPKLIEMAYAYEQRTRARRPPHFDTDALIDAGEP | 0.545 | 26 | 0.553326 | S | 0.526 | S | 0.76 | In |
| >f69a962efc89f6ae7e51d075134f3a8a569fbd83 |  |  |  |  |  |  |  |  |
| GSHMPVPSFGEAMAYFAMVKRYLTSFPIDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS | 0.828 | 35 | 0.920274 | S | 0.666 | S | 1.63 | In |
| >fb10db938e65cd7db07e293fafe4879fc610e0a3 |  |  |  |  |  |  |  |  |
| MEFTTGLMSLDTALNEMLSRVTPLTAQETLPLVQCFGRILASDVVSPLDVPGFDNSAMDGYAVRLADIASGQPLPVAGKSFAGQPYHGEWPAGTCIRIMTGAPVPEGCEAVVMQEQTEQMDNGVRFTAEVRSGQNIRRRGEDISAGAVVFPAGTRLTTAELPVIASLGIAEVPVIRKVRVALFSTGDQLQLPGQPLGDGQIYDTNRLAVHLMLEQLGCEVINLGIIRDDPHALRAAFIEADSQADVVISSGGVSVGEADYTKTILEELGEIAFWKLAIKPGKPFAFGKLSNSWFCGLPGNPVSATLTFYQLVQPLLAKLSGNTASGLPARQRVRTASRLKKTPGRLDFQRGVLQRNADGELEVTTTGHQGSHIFSSFSLGNCFIVLERDRGNVEVGEWVEVEPFNALFGGL | 0.554 | 35 | 0.61343 | In | 0.684 | S | 0.55 | In |
| >6b9bea2d60f4149328a3ac243ba4ffb7e9975255 |  |  |  |  |  |  |  |  |
| MSLETAHPGYLGSQDTFYVGTLKGVGRIYQQTFVDTYSKVAFAKLYTTKIPITSADILNDKVLPFFEQYNLPILRILTDRGTEYCGKVEHHDYQLYLAINNIDHTKTKANSPQTNGICERFHKTILQEFYQVTFRKKIYESIDELQKDLDEWMDYYNNQRTHQGKMCCGRTPMQTLIEDKQIWMEKFINEGHHHHHH | 0.568 | 37 | 0.848626 | In | 0.516 | S | -0.39 | S |
| >0ec78a618eccc2c7688c213a4e3e52fe85b57b27 |  |  |  |  |  |  |  |  |
| MEFERAKSAIESDVDFWDKLQAELEEMAKRDAEAHPWLSDYDDLTSATYDKGYQFEEENPLRDHPQPFEEGLRRLQEGDLPNAVLLFEAAVQQDPKHMEAWQYLGTTQAENEQELLAISALRRCLELKPDNQTALMALAVSFTNESLQRQACEILRDWLRYTPAYAHLVTPAEEGAGGAGLGPSKRILGSLLSDSLFLEVKELFLAAVRLDPTSIDPDVQCGLGVLFNLSGEYDKAVDCFTAALSVRPNDYLLWNKLGATLANGNQSEEAVAAYRRALELQPGYIRSRYNLGISCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLALSMLGQSDAYGAADARDLSTLLTMFGLPQ | 0.417 | 46 | 0.773453 | S | 0.543 | In | -1.17 | S |
| >e771516019a5ab367b61ca99ef7aee23bbce5669 |  |  |  |  |  |  |  |  |
| MSQIPLVSQYDPYGQTAQLQQLQQQQQQHIPPTQMNPEPDVLRNLMVNYIPTTVDEVQLRQLFERYGPIESVKIVCDRETRQSRGYGFVKFQSGSSAQQAIAGLNGFNILNKRLKVALAASGHQRPGIAGAVGDGNGYL | 0.491 | 30 | 0.8683 | In | 0.677 | In | 1.94 | In |
| >9cb2fdf64a2b17a8ffd2494cacc598f14e1a5f0b |  |  |  |  |  |  |  |  |
| GSALTVRDWPALEALAKTMPADAGARAMTDDDLRAAGVDRRVPEQKLGAAIDEFASLRLPDRIDGRFVDGRRANLTVFDDARVAVRGHARAQRNLLERLETELLGGTLDTAGDEGGIQPDPILQGLVDVIGQGKSDIDAYATIVEGLTKYFQSVADVMSKLQDYISAKDDKNMKIDGGKIKALIQQVIDHLPTMQLPKGADIARWRKELGDAVSISDSGVVTINPDKLIKMRDSLPPDGTVWDTARYQAWNTAFSGQKDNIQNDVQTLVEKYSHQNSNFDNLVKVLSGAISTLTDTAKSYLQI | 0.721 | 63 | 0.669657 | S | 0.625 | In | -0.27 | S |
| >24616dec2944d7b9c5e570fb86bc5965de232ef1 |  |  |  |  |  |  |  |  |
| MLSQKPNKKPVLINEETQAPNMTSVVSVVSTLFKMYKKRRMTKEEPPPMVDSSMPSTSKSTCQITITCENSESEDSTCSSSISSFLSLDFDKLSLDSDLCEGRYDQNRPAPGPQSLPTRITQNMPPTAKNVQFYRTPAHKSGRFLPYEVPFKLRRRRKATKDSSLTDIEVLLKIKLKGDVESLRMCIFDKENILPKPCSVQAARPPSPEAEEVDELSEYFTHFVRVELKMSSLAESMYV | 0.617 | 98 | 0.858061 | In | 0.877 | In | 1.91 | S |
| >49c1c204a979edea489a1a0763f378f855f76a4f |  |  |  |  |  |  |  |  |
| HVKPPQFTWAQWFETQHINMTSQQCTNAMQVINNYQRRCKNQNTFLLTTFANVVNVCGNPNMTCPSNKTRKNCHHSGSQVPLIHCNLTTPSPQNISNCRYAQTPANMFYIVACDNRDQRRDPPQYPVVPVHLDRII | 0.149 | 35 | 0.538199 | S | 0.882 | In | 1.85 | In |
| >c9e574d29160c7a7dfec80314016d010a7619af9 |  |  |  |  |  |  |  |  |
| SLGKISERLVITSEMIENIQSVKAYCWEEAMEKMIENLRQTELKLHHKMLHSVLQAPMSTLNTLKAGGILNRFSKDIAILDDSLMRSVSRVFKFIDMPTEGK | 0.788 | 69 | 0.812281 | S | 0.556 | S | 0.72 | In |
| >31df25c9dc55909160b04ce019df2f20022e8c76 |  |  |  |  |  |  |  |  |
| MIRALSMHLLDRLTIRLFHDERQKQFSGDHARSLGWSSTESQFLRFKTMTQAINFEQKTVLDLGCGYGDFKTFLDMSCCIKSYTGVDQQSSFIKQAKSLFKHHTNCEFIKADFSATTLPKADIVVASGSLNYRARNKTYHAKVIKEMYERAEEAVIFNLLNSEHFTSSSLLEAHDPQQVLKYCLSFCPDSELITDYANEDFTIVMRHSNSSKLEHHHHHH | 0.581 | 70 | 0.797844 | In | 0.662 | In | 0.14 | In |
| >05b51321164dd489258ce7a2e59cfb49d3bf075c |  |  |  |  |  |  |  |  |
| MSLSTTPEQIAVEYPIPTYRFVVSIGDEKVPFNSVSGLDISHDVIEYKDGTGNYYKMPGQRQAINITLRKGVFSGDTKLFDWLNSIQLNQVEKKDISISLTNEAGTEILMTWSVANAFPTSLTAPAFDATSNEVAVQEISLTADRVTIQAAEGHHHHHH | 0.74 | 56 | 0.51556 | In | 0.735 | S | -0.4 | S |
| >a6dc84f487592bf32ab64821a6362ccab6947a41 |  |  |  |  |  |  |  |  |
| DPDQFGPDLIEQLAQSGKYSQDNTKGDAMIGVKQPLPKAVLRTQHDKNKEAISILDFGVIDDGVTDNYQAIQNAIDAVASLPSGGELFIPASNQAVGYIVGSTLLIPGGVNIRGVGKASQLRAKSGLTGSVLRLSYDSDTIGRYLRNIRVTGNNTCNGIDTNITAEDSVIRQVYGWVFDNVMVNEVETAYLMQGLWHSKFIACQAGTCRVGLHFLGQCVSVSVSSCHFSRGNYSADESFGIRIQPQTYAWSSEAVRSEAIILDSETMCIGFKNAVYVHDCLDLHMEQLDLDYCGSTGVVIENVNGGFSFSNSWIAADADGTEQFTGIYFRTPTSTQSHKIVSGVHINTANKNTAANNQSIAIEQSAIFVFVSGCTLTGDEWAVNIVDINECVSFDKCIFNKPLRYLRSGGVSVTDCYLAGITEVQKPEGRYNTYRGCSGVPSVNGIINVPVAVGATSGSAAIPNPGNLTYRVRSLFGDPASSGDKVSVSGVTINVTRPSPVGVALPSMVEYLAI | 0.461 | 37 | 0.790459 | In | 0.725 | In | 1.16 | In |
| >4a1bf87ee927ff4d15c4a369678ef9ad1852133a |  |  |  |  |  |  |  |  |
| LALSTAFTGVRDVPAQQIVNEMKVGWNLGNTMDAIGGETNWGNPMTTHAMINKIKEAGFNTLRLPVTWDGHMGAAPEYTIDQTWMKRVEEIANYAFDNDMYVIINLHHENEWLKPFYANEAQVKAQLTKVWTQIANNFKKYGDHLIFETMNEPRPVGASLQWTGGSYENREVVNRYNLTAVNAIRATGGNNATRYIMVPTLAASAMSTTINDLVIPNNDSKVIVSLHMYSPYFFAMDINGTSSWGSDYDKSSLDSEFDAVYNKFVKNGRAVVIGEMGSINKNNTAARVTHAEYYAKSAKARGLTPIWWDNGYSVAGKAETFGIFNRSNLTWDAPEVMKAFIKGIGGSSTTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPQSAVEVTYAITNSWGSGASVNVTIKNNGTTPINGWTLKWTMPINQTITNMWSASFVASGTTLSVTNAGYNGTIAANGGTQSFGFNINYSGVLSKPTGFTVNGTECTVKKGELEGKPIPNPLLGLDSTRTGHHHHHH | 0.472 | 30 | 0.543369 | S | 0.896 | In | 1.87 | In |
| >70b9c1cea8d151d34418dc4811ba35163666adef |  |  |  |  |  |  |  |  |
| MTKYSESYCDVLIVGAGPAGLMAARVLSEYVRQKPDLKVRIIDKRSTKVYNGQADGLQCRTLESLKNLGLADKILSEANDMSTIALYNPDENGHIRRTDRIPDTLPGISRYHQVVLHQGRIERRILDSIAEISDTRIKVERPLIPEKMEIDSSKAEDPEAYPVTMTLRYMSEDESTPLQFGHKTENGLFRSNLQTQEEEDANYRLPEGKEAGEIETVHCKYVIGCDGGHSWVRRTLGFEMIGEQTDYIWGVLDAVPASNFPDIRSRCAIHSAESGSIMIIPRENNLVRFYVQLQARAEKGGRVDRTKFTPEVVIANAKKIFHPYTFDVQQLDWFTAYHIGQRVTEKFSKDERVFIAGDACHTHSPKAGQGMNTSMMDTYNLGWKLGLVLTGRAKRDILKTYEEERQPFAQALIDFDHQFSRLFSGRPAKDVADEMGVSMDVFKEAFVKGNEFASGTAINYDENLVTDKKSSKQELAKNCVVGTRFKSQPVVRHSEGLWMHFGDRLVTDGRFRIIVFAGKATDATQMSRIKKFAAYLDSENSVISRYTPKGADRNSRIDVITIHSCHRDDIEMHDFPAPALHPKWQYDFIYADCDSWHHPHPKSYQAWGVDETKGAVVVVRPDGYTSLVTDLEGTAEIDRYFSGILVEPKEKSGAQTEADWTKSTA | 0.557 | 56 | 0.605066 | In | 0.524 | S | 0.09 | In |
| >13c38aafea387c51cede4b8caaeab70d5eb6f14c |  |  |  |  |  |  |  |  |
| MSLSPSARRVQGALETRGFGHLKVVELPASTRTAKEAAQAVGAEVGQIVKSLVFVGEKGAYLFLVSGKNRLDLGKATRLVGGPLRQATPEEVRELTGFAIGGVPPVGHNTPLPAYLDEDLLGYPEVWAAGGTPRALFRATPKELLALTGAQVADLKEG | 0.686 | 65 | 0.905486 | S | 0.782 | S | 1.59 | In |
| >b3dac5e01930be9266ecd2d30beafdd6280f554b |  |  |  |  |  |  |  |  |
| MRAGLLEGVIKEKGGVPVYPSYLAGEWGGSGQEIEVKSPIDLATIAKVISPSREEVERTLDVLFKRGRWSARDMPGTERLAVLRKAADIIERNLDVFAEVLVMNAGKPKSAAVGEVKAAVDRLRLAELDLKKIGGDYIPGDWTYDTLETEGLVRREPLGVVAAITPFNYPLFDAVNKITYSFIYGNAVVVKPSISDPLPAAMAVKALLDAGFPPDAIALLNLPGKEAEKIVADDRVAAVSFTGSTEVGERVVKVGGVKQYVMELGGGDPAIVLEDADLDLAADKIARGIYSYAGQRCDAIKLVLAERPVYGKLVEEVAKRLSSLRVGDPRDPTVDVGPLISPSAVDEMMAAIEDAVEKGGRVLAGGRRLGPTYVQPTLVEAPADRVKDMVLYKREVFAPVALAVEVKDLDQAIELANGRPYGLDAAVFGRDVVKIRRAVRLLEVGAIYINDMPRHGIGYYPFGGRKKSGVFREGIGYAVEAVTAYKTIVFNYKGKGVWKYE | 0.586 | 88 | 0.94663 | S | 0.527 | S | 0.49 | In |
| >9237f65ac8259625a8b1b969f19c0c336332a66d |  |  |  |  |  |  |  |  |
| MAHHHHHHMTPWQRMLCCRGRGMTPWQRMLCCRERGMTPWRRMLCCRGRGMTPWQRLPRCRERGMTPWQRMLCCRGRGMTPWRRMLCCRGRGMTPWQRLPRCRERGMTPWQRMLCCRGRGMTPWRRMLCCRGRGMTPWQRMLCCRGRGMTPWQRMLCCRGRGMTPWRRMLCCRGRGMTPWRRLPRCRGRGMTPWRRLPGCRERGMTPWRRMLCCRERGMTPWRRMLCCRGRGMTPWRRMLCCRRRGMTPWRRMLCCRGRGMTPWRLPRCRGRGMTPWRRMLCCRGRGMTPWRR | 0.108 | 100 | 0.998337 | S | 0.797 | In | -4.98 | S |
| >1ddec130f55919c9ab0aec242066b188e48751fc |  |  |  |  |  |  |  |  |
| METLSFPRYNIAEIVVHIRNKLLTGADGKNLSKSDFLPNPKPEVLYMIYMRALQLVYGVRLEHFYMMPVNIEVMYPHIMEGFLPVSNLFFHLDSFMPICRVNDFEIADILYPKANRTSRFLSGIINFIHFRETCLEKYEEFLLQNKSSVDKIQQLSNAHQEALMKLEKLNSVPVEEQEEFKQLKDDIQELQHLLNQDFRQKTTLLQERYTKMKSDFSEKTKHVNELKLSVVSLKEVQDSLKSKIVDSPEKLKNYKEKMKDTVQKLRSAREEVMEKYDIYRDSVDCLPSCQLEVQLYQKKSQDLADNREKLSSILKESLNLEGQIDSDSSELKKLKTEENSLIRLMTLKKERLATMQFKINKKQEDVKQYKRTMIEDCNKVQEKRDAVCEQVTAINQDIHKIKSGIQQLRDAEKREKLKSQEILVDLKSALEKYHEGIEKTTEECCTRIGGKTAELKRRMFKMPP | 0.472 | 97 | 0.792762 | In | 0.916 | In | 0.22 | In |
| >e632156ecf74635347c4fa19010cd662f6cbe4b8 |  |  |  |  |  |  |  |  |
| DPNAKENLIPEDPNEDIIERIESGGIENGEWLKHGILEANVKISDTKEETKDEIIAFAPNLSQTEQVKDTKDENFALEIMFDKHKEYFASGILKLPAISGQKKLSNSFRTYITFHVIQGIVEVTVCKNKFLSVKGSTFQIPAFNEYAIANRGNDEAKMFFVQVTVS | 0.769 | 96 | 0.925568 | S | 0.68 | S | -0.58 | S |
| >97717465343ecd8165baba144e6f0fee25d9cab2 |  |  |  |  |  |  |  |  |
| MNPRQGYSLSGYYTHPFQGYEHRQLRYQQPGPGSSPSSFLLKQIEFLKGQLPEAPVIGKQTPSLPPSLPGLRPRFPVLLASSTRGRQVDIRGVPRGVHLGSQGLQRGFQHPSPRGRSLPQRGVDCLSSHFQELSIYQDQEQRILKFLEELGEGKATTAHDLSGKLGTPKKEINRVLYSLAKKGKLQKEAGTPPLWKIAVSTQAWNQHSGVVRPDGHSQGAPNSDPSLEPEDRNSTSVSEDLLEPFIAVSAQAWNQHSGVVRPDSHSQGSPNSDPGLEPEDSNSTSALEDPLEFLDMAEIKEKICDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQGTTPPIWHLTDKKRERMQIKRNTNSVPETAPAAIPETRRNAEFLTCNIPTSNASNNMVTTEKVENGQEPVIKLENRQEARPEPARLKPPVHYNGPSKAGYVDFENGQWATDDIPDDLNSIRAAPGEFRAIMEMPSFYSHGLPRCSPYKKLTECQLKNPISGLLEYAQFASQTCEFNMIEQSGPPHEPRFKFQVVINGREFPPAEAGSKKVAKQDAAMKAMTILLEEAKAKDSGKSEESSHYSTEKESEKTAESQTPTPSATSFFSGKSPVTTLLECMHKLGNSCEFRLLSKEGPAHEPKFQYCVAVGAQTFPSVSAPSKKVAKQMAAEEAMKALHGEATNSMASDNQPEGMISESLDNLESMMPNKVRKIGELVRYLNTNPVGGLLEYARSHGFAAEFKLVDQSGPPHEPKFVYQAKVGGRWFPAVCAHSKKQGKQEAADAALRVLIGENEKAERMGFTEVTPVTGASLRRTMLLLSRSPEAQPKTLPLTGSTFHDQIAMLSHRCFNTLTNSFQPSLLGRKILAAIIMKKDSEDMGVVVSLGTGNRCVKGDSLSLKGETVNDCHAEIISRRGFIRFLYSELMKYNSQTAKDSIFEPAKGGEKLQIKKTVSFHLYISTAPCGDGALFDKSCSDRAMESTESRHYPVFENPKQGKLRTKVENGEGTIPVESSDIVPTWDGIRLGERLRTMSCSDKILRWNVLGLQGALLTHFLQPIYLKSVTLGYLFSQGHLTRAICCRVTRDGSAFEDGLRHPFIVNHPKVGRVSIYDSKRQSGKTKETSVNWCLADGYDLEILDGTRGTVDGPRNELSRVSKKNIFLLFKKLCSFRYRRDLLRLSYGEAKKAARDYETAKNYFKKGLKDMGYGNWISKPQEEKNFYLCPV | 0.705 | 84 | 0.910337 | S | 0.718 | S | 2.05 | In |
| >156d31e02464071db7c68d7994c6f932579f9798 |  |  |  |  |  |  |  |  |
| MSLKKINFHTHTKRCKHAKGEDKDYIDAAIKNNLDILGFSDHGPYPDNRFNLRMNFNELEEYKSTLEKLKIKFKNFIQIKIGLEIEYLPSDDFYYNYLKNELKFDYLALGQHLFLTENGELKNTYSLKSTKEYIEYAKSICLGIKSGYFDFVAHPDLIFINDFPWDENCDKACNLIIDTAKKYDFILEFNANGIRRGKKTYSDGERFPYPYEKFWNKASLAKVKTIINSDCHTPCDLWDNTMDYAYTLANNLNLNIIDNEGHHHHHH | 0.572 | 81 | 0.819454 | In | 0.735 | In | 0.2 | In |
| >2af71e3a3051b38619eb58a14253e89701bedf85 |  |  |  |  |  |  |  |  |
| MYEVEVKVPGEYETVRAALADVDAAEHTTVAQADTYYDAPHRAFEQTDEAFRLRRVATAARGFERGDDLTADIDAVLSGPARADGESRVTYKGPLVEAESKTREEFETAVGDDAQMAAIIEQLGFESAAVVRKLRTKHHFEGFTVLLDAVEDVGEYVEIETTVEAEHAVSGAREDAYAVLRRLGLDPTDQIRTSYLGLRTSNALEHHHHHH | 0.631 | 87 | 0.5 | S | 0.524 | S | -3.5 | S |
| >b7e62b7776eb32ee98fe747e9679081a0a03a3e8 |  |  |  |  |  |  |  |  |
| NITSSASQEGTRLNLICTVWHKKEEAEGFVVFLCKDRSGDCSPETSLKQLRLKRDPGIDGVGEISSQLMFTISQVTPLHSGTYQCCARSQKSGIRLQGHFFSILFTETGNYTVTGLKQRQHLEFSHNEGTLS | 0.84 | 51 | 0.944898 | S | 0.66 | S | 1.6 | In |
| >7721b1866ce82c01c56f03a0bd75d3ece94c0281 |  |  |  |  |  |  |  |  |
| MSLGELEVGFMMSGNQKVVDLPIGIPSSVLNQHLGVFATTGMGKSNLMKVFCASAINTRNAGILLTDPHGEYATGQPGDPDSRGLVHHPKAQEGLSVFTIREPAIAQEYGMKPLRIGHKDLSISDLGLVFDLTAAQYEVVNLLMPFSTNEIIDFFINEDVESLPSHLRTTAYIGNHQDIAQRVRSAPADALRLVQRQIRTLLDLTSLFVDSSSSSLPEILSDLDENKVVLIDIPGMSDAAELFILSAISRAIFKDRQRRFIEQGSAAASGRVLISIEEAQRVLSQRSEKTGVFREIAMEGRKFGVGLGVITQQPKNIDQRVLAQMNTLFVMGLADHHDREIIASSAKHDLRVLDTEIQTLDRGDAVISTVGIPFPVSCHIHYFEEYLDALWEAEGHHHHHH | 0.549 | 36 | 0.675893 | In | 0.649 | In | -0.31 | S |
| >5a6e06e98de46e0b5e1e185de0412ccb67aae7d1 |  |  |  |  |  |  |  |  |
| MDLLGDIVEKDTSDSVESNDNGTLSTNNCGTGFPELYKPKKISSWKERLREKRAQKKKTSGKDAEKQQTSTDAPLSEAKSIHNENIKVLQGMSDEQIVQEREDLYNSLDPKLIAKLLKNINKRAKDENNTPLFAEIEGASGTWVGGNKQGIYDLPPLDDEDVDVALEIRPMLGKDAKHVQFEEAGKEKDVEGEGKTNDDVDDIAPLDFQMAQCIDHMKNEELFKDVHFIKEESQNEINLEKLDINDPNFNDKLHEKYFPDLPKEVDKLKWMQPVQQKTDKNYIIEDVSECRFDFNGDLVPPTRQIDSTIHSGLHHHSDSPELAGYTIVELEHLARSTFPSQRCIAIQTLGRILYKLGQKSYYQLVPEIDADTYKEDGSISNVMDKIYSMFWDLIKDGKVIESLEISSDEKFTRNLSVRNYAIDALWLWKQGGGDFRTKK | 0.586 | 98 | 0.705397 | S | 0.673 | In | -0.91 | S |
| >0dad90efbd3bc5e37bf58547950eb092fd5987b1 |  |  |  |  |  |  |  |  |
| MSLKSITFEEHYVIEDIQKETMNAISADPKGIPMKVMLEGLEKKTGFTNADELSHHDERIQFMNNQDVQIQVLSYGNGSPSNLVGQKAIELCQKANDQLANYIAQYPNRFVGFATLPINEPEAAAREFERCINDLGFKGALIMGRAQDGFLDQDKYDIIFKTAENLDVPIYLHPAPVNSDIYQSYYKGNYPEVTAATFACFGYGWHIDVGIHTIHLVLSGIFDRYPKLNMIIGHWGEFIPFFLERMDEALFAEHLNHPVSYYFKNNFYITPSGMLTKPQFDLVKKEVGIDRILYAADYPYIEPEKLGVFLDELGLTDEEKEKISYTNGAKLLGLSPNNEGHHHHHH | 0.482 | 67 | 0.591751 | In | 0.582 | S | -0.74 | S |
| >f7ebf4808f690f9fe67736e7a0404e79b20cc601 |  |  |  |  |  |  |  |  |
| MSLSELISVSDRIYTKLEMNNPGGSHKYRAARRIVEHAVRKGEIIPGVTTVIEKTGGSFGFGLLAACHKYQVAVELAVGLSFSQTKRDLLECFGARLIGKEMLMAGATPKDVVMHHLDNQAALGKSYFYTDQFNNPVGIEAHRYQTASELAVQLTNAGAGRQILFVGCAGTGASFTGITLGLKDHGFDVSTVLVDPNGCDSRAGVFADHRFEGMAVGVCPPFMDWSLVDERAQVQHAEMLAAQRWFYMQSGIFVGNTAAACLAVAQRMAQHPRYVETTLVTIAYDAGLWYQDLLGANRRKAAEGHHHHHH | 0.507 | 28 | 0.759382 | In | 0.735 | In | 0.44 | In |
| >3aaf73124f881bed88d07fc62110d44b937fd3b1 |  |  |  |  |  |  |  |  |
| ITSNPDEEWREVRHTGLVQKLIVYPPPPTKGGLGVTNEDLECLEEGEFLNDVIIDFYLKYLILEKASDELVERSHIFSSFFYKCLTRKENNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQSQNDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKKMCKRPCILILDSLKAASVQNTVQNLREYLEVEWEVKLKTHRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPIVNFELPIHLEKWFPRHVIKTKREDIRELILKLHLQQQKGSSS | 0.756 | 80 | 0.862853 | S | 0.87 | In | 0.15 | In |
| >3f5999afaabaab307ed7354441a6dc6ec14514fb |  |  |  |  |  |  |  |  |
| TNFNELNQLAEEAKRRAEIARQRELHTLKGHVESVVKLKGLDIETIQQSYDI | 0.858 | 91 | 0.922374 | S | 0.537 | S | -1.09 | S |
| >1d23127eb440fa774c9aff2059207a9777b08173 |  |  |  |  |  |  |  |  |
| SNEVIKEFDETVSQMDKAELEERWRLAQAFNATLKPSEILDPFTEQEKKKGVSEYANMLKVHERIGYVEIPAIDQEIPMYVGTSEDILQKGAGLLEGASLPVGGENTHTVITAHRGLPTAELFSQLDKMKKGDIFYLHVLDQVLAYQVDQIVTVEPNDFEPVLIQHGEDYATLLTCTPYMINSHRLLVRGKRIPYTAPIAERNRAVRERGQF | 0.611 | 82 | 0.707046 | In | 0.806 | S | -1.15 | S |
| >fa862700db5f68237d26531af1a2c33c33eb5f89 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMPPEPVWHISAVTEKFPTHGAILYISLTFSFYKKMLRVLWHILLVYGKHAGKRKYRKVMTETNDSLYMKRNNCSGEYATLALSTRSCSFNMQQNDWVTMEGLFPFVMVLCHLETKPMKIGIQLILQVPFMGLGIHKENKEFYLIL | 0.345 | 49 | 0.791095 | In | 0.576 | In | 1.36 | In |
| >fd36228805a09f841ad88211c568e41ddce5360c |  |  |  |  |  |  |  |  |
| MSLSDSLRNKVVVITGASSGIGRSIALESASRGATVVLLARRLDKLEEIAAEARELSASAAFAVKADLSLASDIEAAFAEVKEKVKRIDYLVNAAGFGKFEEFMEADMQDATEMFQVDVLGLMYMTRLFGRLMLDQGSGQIINFGSMAGKVPTTKSAAYSAAKAAVIQFSNVLRLELKPFGVKVMTVNPGPVYTNFFNIADASGQYVKNVQAFMLDPDDVAWEVVHYFGSNKRELNLPVSLAALAKLYNLFPGIGDKLSLEFASREGHHTITTDPNSSSVDKLAAALEHHHHHH | 0.619 | 63 | 0.76746 | In | 0.773 | In | 0.26 | In |
| >8d458447e3a34bb62168c8e08befa6e4589a3109 |  |  |  |  |  |  |  |  |
| MGQVVRELYSPSEQYKVEIIKRKDGLYTTEVYRWMEDCGYEFWSSINQGFSLIDNEEHARKIAIEQLKGCSREKINTNVLKD | 0.21 | 61 | 0.611113 | In | 0.631 | S | -0.31 | S |
| >7d4220635c5a69e611b02f3a52a3eccdb1fb28c1 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMLIDQIVAAVPGVPDISGNASALSLQRRSQEFATSWISMTYSQSYGDLAQNWQNDEGGAGNFDSYAEEKLQNFFSGNRDWKYCFAAEDTKNGEPLDYDDIPGDGAGTGSAFKSEIYFNTYGGIDNYCNDEHIGAQNTGDGR | 0.605 | 64 | 0.703149 | S | 0.721 | S | -0.21 | S |
| >63eda6f140fe7401f9566b06e09221f6ddee3659 |  |  |  |  |  |  |  |  |
| MRGSHHHHHHGSGLKWTDSREIGEALYDAYPDLDPKTVRFTDMHQWICDLEDFDDDPQASNEKILEAILLVWLDEAE | 0.777 | 97 | 0.848876 | S | 0.766 | S | -4.8 | S |
| >8ba8efece9dbfe27b67e775c587bb68f0b11d1d0 |  |  |  |  |  |  |  |  |
| GPGSMSVTLSEPKSSVIVNGRRRITSKFVDGGEMIEEYDVITDDLLLRKYRSRTTLGGFSAWEVEVGNEASTRNLDKELVVETSGSPEVVKQDALEFYVFRIRNLPYAKEVFSVAVEHSKPTDMGEIVVRTSNKKYFKRLSIPDMNRRNLKLDPAQLSFDVQHNTLIIRYKKPLVVLAAESAAKKERASLPAKRIDDADSRTSCNQQ | 0.675 | 88 | 0.83907 | In | 0.707 | In | 1.55 | In |
| >877f533aeda6b7bc62ffe42ee8ffc7d7492928ba |  |  |  |  |  |  |  |  |
| MVLSEGEWQLVLHVWAKVEADVAGHGQDIFIRLFKSHPETLEKFDRFKHLKTEAEMKASEDLKKQGVTFLTALGAILKKKGHHEAELKPLAQSHATKHKIPIKYLEFISEAIIHVLHSRHPGNFGADAQGAMNKALELFRKDIAAKYKELGYQG | 0.748 | 100 | 0.915298 | S | 0.891 | S | 0.28 | In |
| >029d14b2437c5d582044516f73a631ef3c2fd8a7 |  |  |  |  |  |  |  |  |
| MRVSLFLSDAAQADAQSGKVHALGLGWRQCQTPTPPFALVLFLDIDWDETNKQHQLKCQLLTADGDPVVVPGPHGPQRILFEAAAEAGRAPGAIHGTSVRMPLTLNIPAGIPLEPGIYEWRVEVEGYERATAVEAFIVAGGGHPPASCG | 0.374 | 73 | 0.592053 | S | 0.554 | S | 0.04 | In |
| >fdee48ea3efe810a284e0df430caaef2c7531297 |  |  |  |  |  |  |  |  |
| MTRTTGTRTTGILADGAIRALFAGDKLKSEADLDVDQVQPASLDLRLGSKAYRVRASFMPGPGTRVIDKLNRFSLHEVDLSQGAVLETGCVYIVPLMESLALPADMSASANPKSSTGRLDIFTRVMTDNAQEFDKIPAGYTGPLYLEISPRTFPIVVRRGSRLSQIRFRIGHALLNESEVLKLHETETLVASENPNVTGGGIALSIDLKGFGENGLIGYRGKHHTAVVDVDKKAQHDVLDFWEPLFARGRAELILDPDEFYILVSREAVHVPPLYAAEMTPFDPLVGEFRVHYAGFFDPGFGHAQAGGTGSRAVLEVRSHEVPFILEHGQIVGRLVYEHMLEKPEGLYGTGLGSNYQAQGLKLSKHFRAE | 0.501 | 48 | 0.599406 | S | 0.619 | S | 0.47 | In |
| >7b14164b9f378d397027a3b159d57ed526fa0234 |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHMKSERILVVKTEDFLKEFGEFEGFMRVNFEDFLNFLDQYGFFRERDEAEYDETTKQVIPYVVIMDGDRVLITKRTTKQSEKRLHNLYSLGIGGHVREGDGATPREAFLKGLEREVNEEVDVSLRELEFLGLINSSTTEVSRVHLGALFLGRGKFFSVKEKDLFEWELIKLEELEKFSGVMEGWSKISAAVLLNLFLTQN | 0.396 | 85 | 0.511378 | In | 0.766 | S | -1.22 | S |
| >7a8e8c399f8f2603c8d3d4d10663afcd747c5399 |  |  |  |  |  |  |  |  |
| MILTFKIKHGRDFSAELKKAKQIAEFAVKTHTLSSKDVKQFGLKSIIANQILRKYSRNKQIKKVKSVKLTVPNQGIKVDKEKREIYIPSLKLTLTYMFRNDFEKINQIEIDECYAYVSVNIPEKKMIEPKKWIGIDRNATGHIAVVADPQTGKIWKLGKKAEHIHNKYKAIRKKLQKKKKYKLLKKIKDRESRIVRDLNHKVSKKIVEIAQGENAGIKLEKLNGIRSNKKHTKPFKYGLNSWSFYQLEFFIQYKAKMNGIPLTYVDPRYTSKECSRCGYIGIREDKSFECPRCGHVDHADANASFNIAVRPPLMEGTGRLHADSDACKGSTDTPEEATPGTTGTLEPPKLLEHHHHHH | 0.549 | 97 | 0.672605 | In | 0.869 | In | -0.53 | S |
| >7f4e070847238febaab948bf107549f40e26ac33 |  |  |  |  |  |  |  |  |
| MAHHHHHHMASNVNEESHALYGAVVVRLVDRVMLCKTPSAPMDGFTIPSTAWADLVSRCSAPHFRTSAFLNVTADKDPKQEVTLSYHLMTDDAFGYGIIGAKAVSRRDGHAALDELAALFKKMFVEPPSTLNPKLADVFVRPARDLLMKYSSG | 0.239 | 75 | 0.747486 | S | 0.776 | In | 0.63 | In |
| >14e380935326da572613f900d477283d5d539eef |  |  |  |  |  |  |  |  |
| ADTTGRAYNLTWKSTNFKTILEWEPKSIDHVYTVQISTRLENWKSKCFLTAETECDLTDEVVKDVGQTYMARVLSYPARNGNTTGFPEEPPFRNSPEFTPYLDTNLGQPTIQSFEQVGTKLNVTVQDARTLVRRNGTFLSLRAVFGKDLNYTLYYWRASSTGKKTATTNTNEFLIDVDKGENYCFSVQAVIPSRKRKQRSPESLTECTSREQGRAREMF | 0.678 | 32 | 0.687522 | In | 0.759 | In | 1.26 | In |
| >fd77eed8df0358def5404a671a16a8dbde5a4077 |  |  |  |  |  |  |  |  |
| SNAMKNIIFDFDSTLIKKESLELILEPILQKSPAKLKEIEYITNLGMQGDISFRDSLQKRLAIASPTKQSIKEFSNKYCPNLLTDGIKELVQDLKNKGFEIWIFSGGLSESIQPFADYLNIPRENIFAVETIWNSDGSFKELDNSNGACDSKLSAFDKAKGLIDGEVIAIGDGYTDYQLYEKGYATKFIAYMEHIEREKVINLSKYVARNVAELASLIM | 0.738 | 83 | 0.729578 | In | 0.881 | S | 0.19 | In |
| >fd4788ae9d3bccb27b1f682d91373d992fecd987 |  |  |  |  |  |  |  |  |
| GMHPNIATLLSANLGESRTRHLLSLVSVPDGLPSDAEGRATRAEIAQALNMVLFAGILDRVPTGRAYTDDVAATGGKVVFDHGALRTVKWRDNGALPEGEAAFTRILRPLGYRLNGNYPLDRISMTGRSYAHADAPEGIAQFFVSEFHPERFSDAFREAVGRVTGNSADPLTPRAQTLLWQLDRDGVLTVADGAELIGLLVPCFERQHGVPRLADYETLLRESAEMAWIATEGNAFNHATDRVDDVFGLSEQQKALGRPMKDKVEVSGSGRVKQTAFRADTVRRQFIGAQGETVERDVPGSFYEFITRDRFADAPAASPRVDLGFDAGNAQGIFKMTAAV | 0.555 | 33 | 0.6196 | In | 0.589 | S | 0.2 | In |
| >bfed83c13af4f912baeb9c03896c9ce29257c882 |  |  |  |  |  |  |  |  |
| MSLNENSEGTGVALGRNQPLKKEKPKWKSDYPMTDGQLRSKRDEFWDTAPAFEGRKEIWDALKAAAHAFESNDHELAQAIIDGANITLPHGALTECYDELGNRYQLPVYCLAPPINMIEEKSDIETLDILEHHHHHH | 0.658 | 94 | 0.670542 | S | 0.622 | S | -1.49 | S |
| >64115b86eee64d8adcae40bcad53c1d0dc198835 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMGETKVDQEELFTSISEIFSDLDPDVVYLMLSECDFKVENAMDCLLELSATDTKIEESSSQSFVASENQVGAAESKI | 0.167 | 100 | 0.651437 | S | 0.629 | S | -4.16 | S |
| >74ee99f9b59bf502344c4e2641722c0f4cc90d1c |  |  |  |  |  |  |  |  |
| MSLNMKMIFTTAALAIFLLLAGIDAHALKEPAPSSAPPARPAEQDELALFRASIRMEKREFVADAMDLDEVQARKFWSIYHQYEADLMKLNEARYALINDYAVNFDSISETKADELVRAALEFRKSRTALLENYYGKLAKALSKKIGARFLQVESVLQGAEDVEIGASLPLMPKSREGHHHHHH | 0.639 | 80 | 0.885606 | S | 0.537 | S | -0.56 | S |
| >52e7a88d42a1f0d1dd48e166877abc7aa6634323 |  |  |  |  |  |  |  |  |
| GAIRSDFSNEDIYDNIDPDTISFPPKIATTDLFLPLFFHFGSTRQFMDKLHEVISGDYEPSQAEKLVQDLCDETGIRKNFSTSILTCLSGDLMVFPRYFLNMFKDNVNPPPNVPGIWTHDDDESLKSNDQEQIRKLVKKHGTGRMEMRKRFFEKDLLVPRGSHHHHHH | 0.794 | 68 | 0.704417 | In | 0.678 | In | 0.02 | In |
| >ae8be4b1d541d12d5e48bfa612c7a30e5337d3c3 |  |  |  |  |  |  |  |  |
| MSLASYFIGVDVGTGSARAGVFDLQGRMVGQASREITMFKPKADFVEQSSENIWQAVCNAVRDAVNQADINPIQVKGLGFDATCSLVVLDKEGNPLTVSPSGRNEQNVIVWMDHRAITQAERINATKHPVLEFVGGVISPEMQTPKLLWLKQHMPNTWSNVGHLFDLPDFLTWRATKDETRSLCSTVCKWTYLGHEDRWDPSYFKLVGLADLLDNNAAKIGATVKPMGAPLGHGLSQRAASEMGLIPGTAVSVSIIDAHAGTIGILGASGVTGENANFDRRIALIGGTSTAHMAMSRSAHFISGIWGPYYSAILPEYWLNEGGQSATGALIDHIIQSHPCYPALLEQAKNKGETIYEALNYILRQMAGEPENIAFLTNDIHMLPYFHGNRSPRANPNLTGIITGLKLSTTPEDMALRYLATIQALALGTRHIIETMNQNGYNIDTMMASGGGTKNPIFVQEHANATGCAMLLPEESEAMLLGSAMMGTVAAGVFESLPEAMAAMSRIGKTVTPQTNKIKAYYDRKYRVFHQMYHDHMRYQALMQEGEGHHHHHH | 0.462 | 23 | 0.618248 | In | 0.537 | In | 0.74 | In |
| >a7bf7d74cceccce9e41f47ade9a3e27d4f459a83 |  |  |  |  |  |  |  |  |
| MAHHHHHHMEFCGPKPLCVRSRLRSLVVVRPRRAVCPNPRPPHTLGSGREMLRRNRQLHSRLRVDGRSRQPDAGDKSRSCFRLQPFTVENEHTAASTGASGPVVLEPRRAGTSGFRAGASSSHSTRKKHFLVIELHAPRQALRQREAGGVPPHPPHTGTGFHFHTPTQQ | 0.488 | 98 | 0.758167 | In | 0.91 | In | 0.41 | In |
| >13a243f4179c1e6220fb360cf41b82209b7a795a |  |  |  |  |  |  |  |  |
| MPIEPQSDAHVLKSRLEWGEPAFTILDVRDRSTYNDGHIMGAMAMPIEDLVDRASSSLEKSRDIYVYGAGDEQTSQAVNLLRSAGFEHVSELKGGLAAWKAIGGPTEGIIESRTPAGADDYNVVSRMQNHLENQKKEVLEHHHHHH | 0.439 | 71 | 0.638405 | S | 0.524 | S | -0.72 | S |
| >e0241a84c4b502836a20704b034044d7df53be76 |  |  |  |  |  |  |  |  |
| MSLAMEDTLHVGVTAPKLISLGAKVQGWRATQEDAEAAFVISIPCLSDTPDTGADDDKAEETIAARESNDAVAMAVFCVFDGHGGDAVAKLAASRFESHLRKAVCSVRHDEAEASAVLRRVDQESTTPQYSVSEASPLRPRESGCFPQLSSNDVNSGAALGDVGVRSVSNVTVEMVRQLTEGSADKSVARGSAADHSETSDTCHGLSASPTVSRREMEALRLYFAGIMEEALLSLDDELRSSDEGRRGDYNCTGCTACVVGITTNFILCANIGDSGAAFYTPQDIVPISITHRTTDPGERARINAAGYTLVEHRIEGLLAVSRALGDYDFKQCGGRGPREQAVTAVPDVTIMPVPPAAAVGRWGVVVACDGVWDTLTPHQVHHAIMNTPNDLEVASSATEVVIRAREMAYASQKEGDKSHINTEKYREGHHHHHH | 0.68 | 72 | 0.649846 | In | 0.971 | In | -0.65 | S |
| >8ef92796941a2e1e8f2de250b28a2954d4ef3122 |  |  |  |  |  |  |  |  |
| GMTKEASRPALDLARQAYEAFKARGLNLNMQRGQPADADFDLSNGLLTVLGAEDVRMDGLDLRNYPGGVAGLPSARALFAGYLDVKAENVLVWNNSSLELQGLVLTFALLHGVRGSTGPWLSQTPKMIVTVPGYDRHFLLLQTLGFELLTVDMQSDGPDVDAVERLAGTDPSVKGILFVPTYSNPGGETISLEKARRLAGLQAAAPDFTIFADDAYRVHHLVEEDRAEPVNFVVLARDAGYPDRAFVFASTSKITFAGAGLGFVASSEDNIRWLSKYLGAQSIGPNKVEQARHVKFLTEYPGGLEGLMRDHAAIIAPKFRAVDEVLRAELGEGGEYATWTLPKGGYFISLDTAEPVADRVVKLAEAAGVSLTPAGATYPAGQDPHNRNLRLAPTRPPVEEVRTAMQVVAACIRLATEEYRAGH | 0.726 | 36 | 0.716157 | In | 0.653 | S | 0.17 | In |
| >daa411365a42611ada846f63f4f6fa0a36dcc40b |  |  |  |  |  |  |  |  |
| MKVAIVFDSAGTLVKIMRVIKDLKKNKFICNSQTVDIVDKKKGRALVIIKEDPLKVVDKENPEKLISDLLKEVEIGISYCNPPINREGIFKDRKTKVKELQEPLNILKRYEVETGYGSALIIDTYAGEVEYTIATAGCLFKEVKETIKQLKDLGVKVFIASGDRKGFIKRLAEITGVDERYIMAEAHQELKRDLIRNLKKEGYFTIMVGDGANDVPAMIESDLAVVTLQNGNVSRRALETADIKIYNIKEIVDICKKVINGEIKGRMQIKECS | 0.668 | 99 | 0.585676 | S | 0.6 | In | 0.6 | In |
| >8669f1accee17faa9ba620dad9002b3831d57779 |  |  |  |  |  |  |  |  |
| MRMLSRNATFNSHGQDSSYFLGWQEYEKNPYHEVHNTNGIIQMGLAENQLCFDLLESWLAKNPEAAAFKKNGESIFAELALFQDYHGLPAFKKAMVDFMAEIRGNKVTFDPNHLVLTAGATSANETFIFCLADPGEAVLIPTPYYPGFDRDLKWRTGVEIVPIHCTSSNGFQITETALEEAYQEAEKRNLRVKGVLVTNPSNPLGTTMTRNELYLLLSFVEDKGIHLISDEIYSGTAFSSPSFISVMEVLKDRNCDENSEVWQRVHVVYSLSKDLGLPGFRVGAIYSNDDMVVAAATKMSSFGLVSSQTQHLLSAMLSDKKLTKNYIAENHKRLKQRQKKLVSGLQKSGISCLNGNAGLFCWVDMRHLLRSNTFEAEMELWKKIVYEVHLNISPGSSCHCTEPGWFRVCFANLPERTLDLAMQRLKAFVGEYYNVPEVNGGSQSSHLSHSRRQSLTKWVSRLSFDDRGPIPGR | 0.507 | 42 | 0.685149 | In | 0.529 | S | 1.13 | In |
| >e0bc61bd0a33fe2bc3bb12739781f4abcc49b4d1 |  |  |  |  |  |  |  |  |
| MSLVKVGLFDKLKKSDTQRKALPSLKEKVKEEPSEVELVPVEEDKLVKEIIKPKVTYIKKVSISTYADLKNVSEEISAGNIVIADLTPLESKPELLTKVAEQLRMTAETFGWDIAKLCKNESKVIITPPNIRIFREEGHHHHHH | 0.839 | 100 | 0.733197 | S | 0.728 | S | 0.39 | In |
| >13771db3168e1da45cff1a93ab639b4cac398df3 |  |  |  |  |  |  |  |  |
| MKPSEMRNLQATDFAKEIDARKKELMELRFQAAAGQLAQPHRVRQLRREVAQLNTVKAELARKGEQQ | 0.428 | 30 | 0.806337 | S | 0.651 | In | -1.42 | S |
| >c28c1e4499cde03a6e9198ca9d72c36a4dccc0c9 |  |  |  |  |  |  |  |  |
| GSHMAITKINDCFELLSMVTYADKLKSLIKKEFSISFEEFAVLTYISENKEKEYYLKDIINHLNYKQPQVVKAVKILSQEDYFDKKRNEHDERTVLILVNAQQRKKIESLLSRVNKRITEANNEIEL | 0.611 | 99 | 0.781642 | In | 0.551 | S | 0.07 | In |
| >e207ecf56bbf75b43a484526a8477938a219536e |  |  |  |  |  |  |  |  |
| KEPDPDKLKKAIVQVEHDERPARLILNRRPPAEGYAWLKYEDDGQEFEANLADVKLVALIEG | 0.701 | 99 | 1 | S | 0.66 | S | -2.02 | S |
| >50e0d85c6bb315b505e964a91bd3b475c178a219 |  |  |  |  |  |  |  |  |
| MGQRITINGKTLEMPKVFKDEEEVAEFASDVLQKALKLDKYRRQFRNGRVVLDVKLSDVGISKSGIDSVTYIFACKGKTCGLITMYPNGPKVVVYRLEHHHHHH | 0.585 | 93 | 0.792654 | S | 0.709 | S | 0.57 | In |
| >3b8cfdf0c7ca13cb84d1f9f09fee0ac07e9572f8 |  |  |  |  |  |  |  |  |
| GPGSMTPLGVPCSEDVLEALAEAYVNMDMATMTAFHKKAMTEMLRAGGGDGGAEPAAVDYEEHLLRASGGFSGAAVATSTPAAPVAPGGDAAAAESAAPLVKKAPEKTAFDITLKMFPAETKIKLIKELRSVCGLSIQEAKTAIDKCPGVIARQVPKSDAEKLKDAMVKLGAEVELM | 0.808 | 99 | 0.942107 | S | 0.74 | S | -0.12 | S |
| >059ff4772ae91bee67eaf4a14baa65c9b7dd8c88 |  |  |  |  |  |  |  |  |
| GSHMHTNWQVCSLVVQAKSERISDISTQLNAFPGCEVAVSDAPSGQLIVVVEAEDSETLIQTIESVRNVEGVLAVSLVYHQQEEQGEETP | 0.805 | 95 | 0.826063 | S | 0.794 | S | -2.61 | S |
| >b409ab5b133494f5f59e76cd973947538a7e2ec8 |  |  |  |  |  |  |  |  |
| MSLIIGYVIGQATTQEALILAERPVRLGTYVVLEYDNVKALGLITNVTRGSPMLDDNMNDIEIVQRLKQFNNSIPVYTKAKVKMLCDMNNHFLMPDIPPFAGTPAREAEDEELKSIYSQDGQIRIGSLIGKNVEVKLNINSFARHLAILAATGSGKSNTVAVLSQRISELGGSVLIFDYHGEYYDSDIKNLNRIEPKLNPLYMTPREFSTLLEIRENAIIQYRILRRAFIKVTNGIREKLKEGQIPFSTLNSQFYELMKDELETQGNSDKKSSAKDEVLNKFEEFMDRYSNVIDLTSSDIIEKVKRGKVNVVSLTQLDEDSMDAVVSHYLRRILDSRKDFKRSKNSGLKFPIIAVIEEAHVFLSKNENTLTKYWASRIAREGRKFGVGLTIVSQRPKGLDENILSQMTNKIILKIIEPTDKKYILESSDNLSEDLAEQLSSLDVGEAIIIGKIVKLPAVVKIDMFEGKLLGSDPDMIGEWKKVEESEKIAKGFADFGTEIGDEGHHHHHH | 0.538 | 75 | 0.746748 | In | 0.787 | In | 0.48 | In |
| >fff8d9b5f5d7deab5698e43505a5ef58981a77e7 |  |  |  |  |  |  |  |  |
| MSLASYQETLTSDESINELIAETTGINHLEVIENVIDSMEQDDSAMVSHTPEGGYLWKFKYGSVEVFVQLNGTTDEDTITVWSTVLNLPAKDEPRLMRYLLEMNCSSTFEARFGIIENRVVVISTRTLAELSPGEVSRLITIVATIADNNDEALQTEFGATEGHHHHHH | 0.727 | 64 | 0.805883 | In | 0.705 | S | -2.63 | S |
| >3f670b9f6b264ac742c6d6d585bcb351734d771d |  |  |  |  |  |  |  |  |
| MVLLETNRLRLQTIDIPLLDAASKQDHQAIKELGYETNGEWPNSDFFEAIPYFREILVKNNGTKGFDSWIIVKKDNYEIVGGTGFLGDPDENGMIEIGFATNKSHRRKGYCVEAAQKLINWALSRETVSRITARCEHDNLGSQKTLEKLGFILNHKSAEYKHWIYVTK | 0.53 | 46 | 0.632743 | S | 0.709 | S | 0.53 | In |
| >ac9b379e71dfa46b805481d69bf386a23dd1380c |  |  |  |  |  |  |  |  |
| PISPIETVPVKLKPGMDGPKVKQWPLTEEKIKALVEICTEMEKEGKISKIGPENPYNTPVFAIKKKDSTKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDEDFRKYTAFTIPSINNETPGIRYQYNVLPQGWKGSPAIFQSSMTKILEPFRKQNPDIVIYQYMDDLYVGSDLEIGQHRTKIEELRQHLLRWGLTTPDKKHQKEPPFLWMGYELHPDKWTVQPIVLPEKDSWTVNDIQKLVGKLNWASQIYPGIKVRQLCKLLRGTKALTEVIPLTEEAELELAENREILKEPVHGVYYDPSKDLIAEIQKQGQGQWTYQIYQEPFKNLKTGKYARMRGAHTNDVKQLTEAVQKITTESIVIWGKTPKFKLPIQKETWETWWTEYWQATWIPEWEFVNTPPLVKLWYQLEKEPIVGAETFYVDGAANRETKLGKAGYVTNRGRQKVVTLTDTTNQKTELQAIYLALQDSGLEVNIVTDSQYALGIIQAQPDQSESELVNQIIEQLIKKEKVYLAWVPAHKGIGGNEQVDKLVSAGIRKVLFLDGID | 0.641 | 84 | 0.517382 | S | 0.669 | S | 0.51 | In |
| >efc9cef161e84d84d1c8e093a4cfb9a7979f5e16 |  |  |  |  |  |  |  |  |
| MEPRPMILEDSPEIPAGAEEEVDAGEETVEQFFAHSKGNTVYISFATTDMKITIGINHDNATLEELVNAVKDLLSELRKRKLEHHHHHH | 0.775 | 99 | 0.935774 | S | 0.643 | S | -3.14 | S |
| >7b0a9cac38e7840ce3e0526dace6320f23dfd4c8 |  |  |  |  |  |  |  |  |
| MSLAKYFDPHIHMVSRTTDDYQNMAAAGITGVIEPAFWQGQARTSVGSFIDYFDTLLGWERFRASMFGIHHFCTIGLNPKEANDLSVANEVLEILPRYLVKDGVVAVGEIGYDDITPEEDRFLAAQLELARQFNLPVLVHTPHRDKIGGTKRTLAVIREVGIAENLVIIDHLNELTLPLVLDSDCWRGHSIYPNTKMSEQRMVALLQEYGSEKMVVNSAADWGISDPLKVPKTGQAMLAAGFSEAQVEQVLFHNPVDFFAQSGQLDKQLVSTPLPIDQRRQWQDNSALRGQEPVVKEGHHHHHH | 0.345 | 45 | 0.547431 | S | 0.562 | S | -0.66 | S |
| >2969b5433454af7dfcff601b90edffaf5bae5a6c |  |  |  |  |  |  |  |  |
| SAEVKVKVQPPDADPVEIENRIIELCHQFPHGITDQVIQNEMPHIEAQQRAVAINRLLSMGQLDLLRSNTGLLYRIKDSQNAGKMKGSDNQEKLVYQIIEDAGNKGIWSRDIRYKSNLPLTEINKILKNLESKKLIKAVKSVAASKKKVYMLYNLQPDRSVTGGAWYSDQDFESEFVEVLNQQCFKFLQSKAETARESKQNPMIQRNSSFASSHEVWKYICELGISKVELSMEDIETILNTLIYDGKVEMTIIAAKEGTVGSVDGHMKLYRAVNPIIPPTGLVRAPCGLCPVFDDCHEGGEISPSNCIYMTEWLEF | 0.66 | 80 | 0.755118 | In | 0.535 | In | 0.5 | In |
| >6cc5c3bedf4c994338edac284ec08a854e1a3787 |  |  |  |  |  |  |  |  |
| MTGVLSGMAKTYLEFSDPNGAEHKFYEVTVDGPELTIRYGRIGTDGQRSTKTFPDAAVAQAEADKKIREKRKKGYEDAVMGARQKRTVVRREVTETRSTTRQIAPVLWRFKTRSAAYGIFVDQNTAWVGNDSGEVFALTLSGEVDRSFRLPDGVKCLVSDQFRTFAGCDDGNVYDLSGKLPFMAYEVESKAALLWLDLHGGTLGVSDSGGGVYAFDAESDQQWGHTDDRASMGWMVRVDARGVYYGHSRGVGMFDRESGFPNWHRPTRGSVLFGWQEGNDLYAGTSANLIQRFTKAGEHVQDYQCDGSVLSCAASPGGEFVFAGDSGSAVYCFNRAGERLWKLGTGCASALSMQFAADKLYIVTTNGTLAAIDVSPAAIEAARQGTTPEVRDVKLAAAMPAQAPATELTVTRNASGGVLLRGVQEGSKVRIRPDDSRFHKDWNVQFPRNLRAADGLYVVDDLEDAGGFYRVVGDLRRLENLEHHHHHH | 0.507 | 30 | 0.542285 | S | 0.835 | In | 0.55 | In |
| >5bce832695ee340faa3e9a916577ef24c6ed1a1f |  |  |  |  |  |  |  |  |
| MKIRVSYGTAVAMGLIRAKIVVKPTTAYLMTYHDGKCINDCKFCAQARSSKANLKMLSRISWPAFNIEDVIKNFHNGSFKRVCLQTIDYPGLIDDIWGILERLSVLKTPISISITPVSKDILMEFKKFGVDYIGIGLDAASEEIYRNVKISRHSWDDMWMFLEDVVSVFGRGRGVVHIIVGLGEKDRDLIETIFRVYKKGGIVSLFAFTPLKGTQMENYPPPSIERYRKIQAAHYLIRTGKVEFSDFEFDERGNLIHLPSYDIPPSAFITYGCPWCNRPYYNERPGREPYNYPSLEMARNDFEKIKRELFL | 0.228 | 32 | 0.747946 | In | 0.959 | In | 1.54 | In |
| >5680783a498968dae3d38e528ad5a7403a791b28 |  |  |  |  |  |  |  |  |
| SNAMHTALINHIRKFIFLTDEDAGTLSAFFQLKKVRKKETLLKTGEICRINYFVVKGCLRLFFIDEKGIEQTTQFAIENWWLSDYMAFQKQQPADFYIQSVENCELLSITYTEQENLFERIPALERYFRLVYQKSFAAAQLRSKFQHMYSKEEQYHNFSSRFPEFIQRVPQYLLASYLGFTPEYLSEIRKKYIS | 0.366 | 45 | 0.853166 | In | 0.709 | In | 0.25 | In |
| >a7ac8530a10a5121ac03adf0be0b2145b7b6e7ff |  |  |  |  |  |  |  |  |
| MQKFDTRTFQGLILTLQDYWARQGCTIVQPLDMEVGAGTSHPMTCLRELGPEPMAAAYVQPSRRPTDGRYGENPNRLQHYYQFQVVIKPSPDNIQELYLGSLKELGMDPTIHDIRFVEDNWENPTLGAWGLGWEVWLNGMEVTQFTYFQQVGGLECKPVTGEITYGLERLAMYIQGVDSVYDLVWSDGPLGKTTYGDVFHQNEVEQSTYNFEYADVDFLFTCFEQYEKEAQQLLALENPLPLPAYERILKAAHSFNLLDARKAISVTERQRYILRIRTLTKAVAEAYYASREALGFPMCNKDK | 0.649 | 18 | 0.78428 | S | 0.702 | S | -0.81 | S |
| >9ffb3e88e8961c1a5056c33f558e79c4e39d90dc |  |  |  |  |  |  |  |  |
| MGHHHHHHSHTRPNDFVVTRTATIKAAPEAIFPLINDFSRWPTWSPYEKLDPDMKRRLSGAQSGKGAVYAWEGNGKAGKGCMEIVNSVPFSLVSLKLDFEKPFRANNSVDFTLTPSGDTTAVSWAMRGSRPFIAKLMGLFMNFDTLIGRDFEVGLANLKRNTE | 0.61 | 27 | 0.662594 | In | 0.668 | S | 2.29 | In |
| >5fbd85c4d6fd8a34f8fe70da347deca6d6c22258 |  |  |  |  |  |  |  |  |
| SKIKIMSKTHVKPTKPVLGKKQFHLTTFDLPYLAFYYNQKFLLYKFQNLLDLEEPTFQNEVVENLKDGLGLVLEDFYQLAGKLAKDDEGVFRVEYDAEDSEINGVEFSVAHAADVTVDDLTAEDGTAKFKELVPYNGILNLEGLSRPLLAVQVTKLKDGLAMGLAFNHAVLDGTSTWHFMSSWAEICRGAQSISTQPFLDRSKARDTRVKLDLTAPKDPNETSNGEDAANPTVEPPQLVEKIFRFSDFAVHTIKSRANSVIPSDSSKPFSTFQSLTSHIWRHVTLARGLKPEDITIFTVFADCRRRVDPPMPEEYFGNLIQAIFTGTAAGLLAAHGPEFGASVIQKAIAAHDASVIDARNDEWEKSPKIFQFKDAGVNCVAVGSSPRFRVYEVDFGFGKPETVRSGSNNRFNGMMYLYQGKAGGISIDVEITLEASVMEKLVKSKEFLLSEEEEEDDGKKLTNGNGHVNGNGNGYVNGNGNGFV | 0.793 | 81 | 0.822799 | S | 0.525 | In | 0.25 | In |
| >b68236ec76301d9888a206ebd4ed5444e3231417 |  |  |  |  |  |  |  |  |
| MKFKLNFHEKINQKDCWQSLIDHKERSYSLDFVNNTEKELPLIYGYEVKDFENHGVKIGYTTCKPSDKIQSAIEERILSQEKEFRFLDENIEKIEEVKVIFWAIAINEKDESFKDYSLHSFIKEKNLLKESQAGGEWFIVDENKDKFEYLSQIFRQFRAPSLFKK | 0.404 | 99 | 0.862866 | S | 0.611 | S | -0.6 | S |
| >aa51862d4ce931862426fc94493917045b237471 |  |  |  |  |  |  |  |  |
| MLATLQSYTQTAMSGNRGGSYISGIVPSFKERRPFHERQKDVEEIRSQQPNKVPVIIERFDGERSLPLMDRCKFLVPEHITVAELMSIVRRRLQLHPQQAFFLLVNERSMVSNSMSMSNLYSQERDPDGFVYMVYTSQPAFG | 0.524 | 42 | 0.863412 | In | 0.602 | In | 1.73 | In |
| >79f2506cd5253bf0ed06a88817571c7a1fcfc2d7 |  |  |  |  |  |  |  |  |
| MEFQRVHQQLLQSHHLFEPLSPVQLQELLASSDLVNLDKGAYVFRQGEPAHAFYYLISGCVKIYRLTPEGQEKILEVTNERNTFAEAMMFMDTPNYVATAQAVVPSQLFRFSNKAYLRQLQDNTPLALALLAKLSTRLHQRIDEIETLSLKNATHRVVRYLLTLAAHAPGENCRVEIPVAKQLVAGHLSIQPETFSRIMHRLGDEGIIHLDGREISILDRERLECFE | 0.323 | 36 | 0.904177 | In | 0.624 | S | -0.47 | S |
| >016d641aa27fb9f25060bae828b623efdbc5e66b |  |  |  |  |  |  |  |  |
| SSWFLQATNKQMSLTPLFEELLLRCPPKIKSNKGHMASAYQLAQGNWEPLDCGVHLGTIPARRVKIHPYEAYLKLKDLLEEEEKKPKCRDTVIREHNKWILKKVRHQGNLNTKKTLNPGKLSEQLDREGHKRNIYNNQIGTIMTEAGIRLEKLPVVRAQTDTKSFHEAIRDKIDKNENQQSPGLHDKLLEIFHTIAQPSLRHTYSDVTWEQLEAGVNRKGAAGFLEKKNVGEVLDSEKHLVEQLIRDLKTGRKIRYYETAIPKNEKRDVSDDWQSGDLVDEKKPRVIQYPEAKTRLAITKVMYNWVKQQPVVIPGYEGKTPLFNIFNKVRKEWDLFNEPVAVSFDTKNWDTQVTSRDLRLIGEIQKYYYRKEWHKFIDTITDHMVEVPVITADGEVYIRNGQRGSGQPDTSAGNSMLNVLTMMYAFCESTGVPYKSFNNRVARIHVCGDDGFLITEKGLGLKFANNGMQILHEAGKPQKITEGERMKVAYRFEDIEFCSHTPVPVRWSDNTSSYMAGRDTAVILSKMATRLDSSGERGTIAYEKAVAFSFLLMYSWNPLVRRICLLVLSQQPETTPSTQTTYYYKGDPIGAYKDVIGKNLCELKRTGFEKLANLNLSLSTLGIWSKHTSKRIIQDCVTIGKEEGNWLVNADRLISSKTGHLYIPDKGYTLQGKHYEQLQLQARTSPVTGVGTERYKLGPIVNLLLRRLRVLLMAAVGASS | 0.532 | 52 | 0.671158 | In | 0.65 | In | 1.59 | In |
| >abb6ac274335c885fb9d22adab526a3818fb8e30 |  |  |  |  |  |  |  |  |
| MDIREIEQERASFAFKVVSDIKDKYSQNKKVQGKYSSYAEKAPTIILNNGLGATLAFFLSKLEKPIDDVDYKSINPESFGNAENIAYAFLYKHLSTWLAEGNGKDSAFSGLTNGEDPLKYIMEKTAIDVAISTEEALSILNWIKKFAKAMLEEEL | 0.629 | 94 | 0.551933 | S | 0.754 | S | -0.17 | S |
| >a6ed15a2f702f0b94be79aca17042ff6691e0fa3 |  |  |  |  |  |  |  |  |
| MIRFPTAFAASLVLVSSLTACGFHLRNSLALPPDTPAVKVQSALQYSELAKLLRRGLKAAGATLADEDAKSGFAQVQVLSERWGDLPIAIDSQGRAQEFSLRYAAIFTVTTANGAILVPQQVIELSRDYVSPPVDATGTATEREILADELRKDMSASILRRIDSVVRARVERGESLESTPTAPLQPSTTPPVQPSGTPESSVPASLPPAPQPSNNNAAALEHHHHHH | 0.676 | 61 | 0.725356 | In | 0.571 | In | 0.96 | In |
| >bd1ee731c48e2d1a93bc573d1f42ef5d39846ab3 |  |  |  |  |  |  |  |  |
| MSLRRAAMIPTNHHNEHASRKDPNEQTNDHDNEEFTQRLGKSAERVWLAGIGALGRVQSEGARFFEALVNEGEEIKQRRRESSLHSAESIREHVEVKLEETWENTQRNWRRMNQLFDERIQDILHTLKIPTREEIEALRHEIEILRNELHELRNEKKTRNPSPSTPKSNKSHTEDEGHHHHHH | 0.78 | 79 | 0.934433 | In | 0.546 | In | -0.2 | S |
| >a85f38303e450bae7ab12937afd5ccaa90f1f7e1 |  |  |  |  |  |  |  |  |
| MSLAQAAEAQNAQAIPDVIENIRVSIKMANSKELTTFMGDMVEIQLPDQDRNNYSKTQAEFVLRDFMKKYPPTNFTYIHKVLDKEDFKFTIGEYVYAGGSMRITMVIKPSNSKYQIDSIVIEREGHHHHHH | 0.715 | 70 | 0.846513 | S | 0.561 | S | -0.1 | S |
| >44add8034c910808c51716c94823806b87de1033 |  |  |  |  |  |  |  |  |
| GHHHHHHMDDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNISLKEVMQVLSHVVLEFPLQQMDSPLDSSRYCALLLPLLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALGISMAKVLMAFYQLEILAGETILSWFSQRDTTDKGQQLRKNQQLQRFIQWLKEAEEESSEDD | 0.756 | 88 | 0.8305 | In | 0.629 | S | -1.84 | S |
| >4fe92d23d99f4742805a24ca1539b7eb38f23f69 |  |  |  |  |  |  |  |  |
| QSPLLKEQIESIVIGKKATVGVAVWGPDDLEPLLINPFEKFPMQSVFKLHLAMLVLHQVDQGKLDLNQTVIVNRAKVLQNTWAPIMKAYQGDEFSVPVQQLLQYSVSHSDNVACDLLFELVGGPAALHDYIQSMGIKETAVVANEAQMHADDQVQYQNWTSMKGAAEILKKFEQKTQLSETSQALLWKWMVETTTGPERLKGLLPAGTVVAHKTGTSQIKAGKTAATNDLGIILLPDGRPLLVAVFVKDSAESSRTNEAIIAQVAQTAYQFELKKLSALSPN | 0.662 | 91 | 0.545365 | S | 0.664 | In | 0.05 | In |
| >c8497ba7ee67398ff76b0e61d87c5d469e3d2ddc |  |  |  |  |  |  |  |  |
| MQISSDYIPDSKFYKVEAIVRPWRIQQVSSALLKIGIRGVTVSDVRGFGAQGGSTERHGGSEFSEDKFVAKVKMEIVVKKDQVESVINTIIEGARTGEIGDGKIFVLPVSDVIRVRTGERGEKAEKMTGDMLSPS | 0.267 | 92 | 0.979773 | S | 0.663 | S | 1.39 | In |
| >8d4e09000ab3832be3cebe92788cab37010ae2df |  |  |  |  |  |  |  |  |
| AGVMTGAKFTQIQFGMTRQQVLDIAGAENCETGGSFGDSIHCRGHAAGDYAAYATFGFTSAAADAKVDSKSQEKLLAPSAPTLTLAKFNQVTVGMTRAQVLATVGQGSCTTWSEYYPAYPSTAGVTLSLSCFDVDGYSSTGFYRGSAHLWFTDGVLQGKRQWDLV | 0.601 | 40 | 0.813917 | In | 0.523 | In | 0.69 | In |
| >6aa4dfc7d765a98198c4cb608db8d332f83e8ef8 |  |  |  |  |  |  |  |  |
| MEEGKQEASMPLVPIDSFSYSWLVNFPSLEATIDDHHQTYEDSSSSSSFIEMDPRLPPSRRFFIKTSHESSFKFDNFVSFSDEDHSLVHADELFRDGYVMPYRLKPTSAATEEESEPLDTTTSEKIDTRGLNSKPSPTSSRKLRRVSKWVLLKYLDFLTPLCKRLRRCRSAVTTGSIGMDSRIRVTTSCRSRVYSDEMTSSPRISVADDYYWRRSCDSESSIYEAVLHCKKSFGTK | 0.459 | 80 | 0.611224 | In | 0.904 | In | 1.21 | In |
| >02639e9552bd0423b092483e110f6dd26a9f63d8 |  |  |  |  |  |  |  |  |
| GMTSDNAAFEGTFKEMFRRHAAGVAIITVNYNGTPYGFTATSVASLSAQPPRFTFNMARSSSSWPAIANTTHIGVHMLGLDNQELADRFARTKNRFEGDHWELGPYEVPILKDVAGWLIGKIQMRLSFENNAVVVVEVVEGQVGEDGTPLLYHSGAYSQPVPLDYEI | 0.631 | 21 | 0.627392 | S | 0.534 | In | 0.41 | In |
| >f4d55aa10edba8c64a340c3e7386d922e56f9883 |  |  |  |  |  |  |  |  |
| MAHHHHHHMSRVPISEEQAQQMLMKQQAQQDRVDAMNEQREGLLRAFVTAEGRERLKRIEQVKVERAQAVESYIIQSVRQGKLQPPVTDETVREILSQLASQGVEAKSSITFARKRMDDDW | 0.523 | 46 | 0.658516 | In | 0.526 | In | -0.56 | S |
| >d298683a641797088f79c8b9c9b870b6024fd0a2 |  |  |  |  |  |  |  |  |
| GMKYDIPTMTAEAVSLLKSLISIPSISREETQAADFLQNYIEAEGMQTGRKGNNVWCLSPMFDLKKPTILLNSHIDTVKPVNGWRKDPFTPREENGKLYGLGSNDAGASVVSLLQVFLQLCRTSQNYNLIYLASCEEEVSGKEGIESVLPGLPPVSFAIVGEPTEMQPAIAEKGLMVLDVTATGKAGHAARDEGDNAIYKVLNDIAWFRDYRFEKESPLLGPVKMSVTVINAGTQHNVVPDKCTFVVDIRSNELYSNEDLFAEIRKHIACDAKARSFRLNSSRIDEKHPFVQKAVKMGRIPFGSPTLSDQALMSFASVKIGPGRSSRSHTAEEYIMLKEIEEAIGIYLDLLDGLKL | 0.721 | 69 | 0.656101 | In | 0.561 | In | 0.68 | In |
| >c24538a1c64ba9b8108cdb07ae21077ff899b01e |  |  |  |  |  |  |  |  |
| SDLTVSLEEASRLESENVKRLRQEKRLSLIVDLDQTIIHATVDPTVGEWMSDPGNVNYDVLRDVRSFNLQEGPSGYTSCYYIKFRPGLAQFLQKISELYELHIYTMGTKAYAKEVAKIIDPTGKLFQDRVLSRDDSGSLAQKSLRRLFPCDTSMVVVIDDRGDVWDWNPNLIKVVPYEFFVGIGDINSNFLAKSTPLPEQEQLIPLEIPKDEPDSVDEINEENEETPEYDSSNSSYAQDSSTIPEKTLLKDTFLQNREALEEQNKERVTALELQKSERPLAKQQNALLEDEGKPTPSHTLLHNRDHELERLEKVLKDIHAVYYEEENDISSRSGNHKHANVGLIIPKMKQKVLKGCRLLFSGVIPLGVDVLSSDIAKWAMSFGAEVVLDFSVPPTHLIAAKIRTEKVKKAVSMGNIKVVKLNWLTESLSQWKRLPESDYLLY | 0.643 | 89 | 0.593752 | In | 0.567 | S | -0.24 | S |
| >0906d16b5135bc2ebf5892598a0779a2e30bfbf2 |  |  |  |  |  |  |  |  |
| MSLIIDNIQHVMFPIAAQVEKLEKAKVDKAILFCTTPHPERARSYKELKEEMSILFKVLSGDGLQVVSLDRMKQNNQKVVQAIQKYPQKFYGFGSVPLGLSLNDTIDWIEEQIVRNGLKGLGEFTPGSDEQVGQLETIFQALAKFPSLPVWVHTFNPVSLKGIQILMNLTKKYPHISVIFGHMGGYYWMNVIDFVKETPNAFIDLSGTFSTLAVRMAITEIPQKCLFGSDAPYGEPFMSKELVEYLAPTDTIRDMVLGGNIQKLLELSNEGHHHHHH | 0.57 | 72 | 0.755711 | In | 0.627 | In | 0.43 | In |
| >62c2f9fd711eb0d82b6ae43ff08673e12ff5363c |  |  |  |  |  |  |  |  |
| MNHLISGFENFEKKINYRFKNKAYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLITKHLYEDPRQHSPGVLTDLRSALVNNTIFASLAVKYDYHKYFKAVSPELFHVIDDFVQFQLEKNEMQGMDSELRRSEEDEEKEEDIEVPKAMGDIFESLAGAIYMDSGMSLETVWQVYYPMMRPLIEKFSANVPRSHHHHHH | 0.724 | 70 | 0.581531 | In | 0.671 | S | -1.45 | S |
| >2c20555604af65d091bbf02c097326dd8c18e38b |  |  |  |  |  |  |  |  |
| MNRGLDPMHVGNARYVKNDDLPKTVPVFPLPGALLLPEGHLPLNIFEPRYLAMIDTALASHRLIGMVQPALHVIEAGIEGGPLSAVGCLGRITSFSETGDGRYVISLTGVCRFRLLEEVAGSEPYRSFRHAPFIADLSGEYDEEAVDRENLLRVFRAFLDANQLEADWESVERAGNRVLVNSLSMMSPFGPAEKQALLEAPDLKTRAETLIAITEIVLAQGSGEGGTVLQLEHHHHHH | 0.68 | 52 | 0.789982 | In | 0.875 | S | -0.39 | S |
| >bc768c55b1e0d810f9618671ebfbd7a770225895 |  |  |  |  |  |  |  |  |
| MSLEPTIITDVLCYITKPDRHNLVVVKVETNKGIYGLGCATFQQRPKAVSLVVSEYLKPILIGRDANNIEDLWQMMMVNSYWRNGPILNNAISGVDMALWDIKGKLANMPLYQLFGGKSRDAIAAYTHAVADNLEDLYTEIDEIRKKGYQHIRCQLGFYGGNSSEFHTTDNPTQGSYFDQDEYMRTTVSMFSSLREKYGYKFHILHDVHERLFPNQAVQFAKDVEKYKPYFIEDILPPDQNEWLGQIRSQTSTPLATGELFNNPMEWKSLIANRQVDFIRCHVSQIGGITPALKLGSLCAAFGVRIAWHTPSDITPIGVAVNIHLNINLHNAAIQENIEINDNTRCVFSGIPEAKNGFFYPIESPGIGVDIDENEIIKYPVEHRPHEWTQSRIPDGTIVTKGIITITTDPNSSSVDKLAAALEHHHHHH | 0.495 | 33 | 0.550371 | S | 0.827 | In | 0.25 | In |
| >56fe875ee1db7a9219c5ff96ff06eeef4a26cddb |  |  |  |  |  |  |  |  |
| MAHHHHHHMKTHISCSYSFIYIHNIVTWINKMVYVNKNEKVKYVFHQVYTLLILKPIPGLKNGLLKYSNKWKDIGKGNYGNTILVRDRKNDHYVMKIINISQMSQKEKRQCLKEVELLSKLNHPFIVKYIESYIEGDTLRIVMKHCKGGDLYHYIQNKKKQNTPIKEKRILIWLTQILTALKFLHSNHILHRDMKSLNILIDSDKRVRLCDFGISKVLENTLDYANTLIGTPYYLSPELCKDKKYSWPSDVWATGCLIYELATFRTPFHSTKGIQQLCYNIRYAPIPDLPNIYSKELNNIYKSMLIREPSYRATVQQLLVSDIVQRQLKLLIEEKIREKQSMKKPLKEKPAIENENSGANEQEVKTLLLDVVDT | 0.329 | 65 | 0.806857 | In | 0.936 | In | 0.53 | In |
| >4bffdd866989a739e2c10abc6a496fde9f32315a |  |  |  |  |  |  |  |  |
| MEAKEEFAHKTLAMDVMKPRRNDPLLTVLTQDSMTVEDVETIISETTYSGFPVVVSRESQRLVGFVLRRDLIISIENARKKQDGVVSTSIIYFTEHSPPLPPYTPPTLKLRNILDLSPFTVTDLTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITKKDVLKHIAQMANQDPDSILFNEFLEVLFQ | 0.693 | 80 | 0.68301 | In | 0.577 | In | -0.16 | S |
| >b5de923dbcdec67a312582d0d066b21a433a289e |  |  |  |  |  |  |  |  |
| TAQLTIEAVPSNAAEGKEVLLLVHNLPQDPRGYNWYKGETVDANRRIIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEVTGQFSVHPETPKPSI | 0.816 | 53 | 0.741448 | S | 0.509 | In | 1.63 | In |
| >3127e0cd3c6d02315d50595663bb289a1afb5543 |  |  |  |  |  |  |  |  |
| MSLKALIIDDEPLARNELTYLLNEIGGFEEINEAENVKETLEALLINQYDIIFLDVNLMDENGIELGAKIQKMKEPPAIIFATAHDQYAVQAFELNATDYILKPFGQKRIEQAVNKVRATKAKDDNNASAIANDMSANFDQSLPVEIDDKIHMLKQQNIIGIGTHNGITTIHTTNHKYETTEPLNRYEKRLNPTYFIRIHRSYIINTKHIKEVQQWFNYTYMVILTNGVKMQVGRSFMKDFKASIGLEGHHHHHH | 0.281 | 64 | 0.76275 | In | 0.804 | In | -0.56 | S |
| >7c032f7c02cbe2068029f58e77898055bc3540bf |  |  |  |  |  |  |  |  |
| AGSATITYSVLEETDRGSLVGNLAKDLGLSLRELITRGAQILSKGNKQLLQLEQKSGNLLLKEKLDREELCGSTNPCILHFQVLLKSPVQFIQGEIQLQDVNDHAPEFMEDE | 0.844 | 89 | 0.965396 | S | 0.817 | S | -0.74 | S |
| >118a563f585caf2733e63268897394a9882c7bae |  |  |  |  |  |  |  |  |
| MGHHHHHHSHGVIPAEKIDGVFAACQSGSFDKLEAVVKDLIDEGHAATQLVNQLHDVVVENNLSDKQKSIITEKLAEVDKCLADGA | 0.3 | 100 | 0.852112 | S | 0.716 | S | -2.31 | S |
| >f2e9e25947cdfbba01126cbb95cd70a1787c4dd7 |  |  |  |  |  |  |  |  |
| MLVKSTTRHVRIFSAEVQGNELIPSNNVLTMDVDPDNEFVWNEDALQQVYRRFDELVESYSGEDLTDYNLRRIGSDLEHFIRDLLQAGKVSYNLDCRVLNYSMGLPKVENQETAGKYWLDNLEHHHHHH | 0.414 | 42 | 0.783788 | S | 0.704 | S | -1.66 | S |
| >3caa001bfaffb7667100885ec2ef7329c01d2f5c |  |  |  |  |  |  |  |  |
| RNGRAGPSDSAFSFTKSRARVLTEAPKVTFKDVAGAEEAKEELKEIVEFLKNPSRFHEMGARIPKGVLLVGPPGVGKTHLARAVAGEARVPFITASGSDFVEMFVGVGAARVRDLFETAKRHAPCIVFIDEIDAVGRKRGSGVGGGNDEREQTLNQLLVEMDGFEKDTAIVVMAATNRPDILDPALLRPGRFDRQIAIDAPDVKGREQILRIHARGKPLAEDVDLALLAKRTPGFVGADLENLLNEAALLAAREGRRKITMKDLEEAADRVMMLPAKKSLVLSPRDRRITAYHEAGHALAAHFLEHADGVHKVTIVPRGRALGFMMPRREDMLHWSRKRLLDQIAVALAGRAAEEIVFDDVTTGAENDFRQATELARRMITEWGMHPEFGPVAYAVREDTYLGGYDVRQYSEETAKRIDEAVRRLIEEQYQRVKALLLEKREVLERVAETLLERETLTAEEFQRVVEGLPLEAPEEAREEREPPRVVPKVKPGGALGGA | 0.658 | 87 | 0.745815 | S | 0.586 | S | -0.23 | S |
| >4cfd54f7ef788a739168db4bb75e516a123eb788 |  |  |  |  |  |  |  |  |
| GMMDTVKNRRTIRKYQQKDITPDLLNDLLETSFRASTMGGMQLYSVVVTRDAEKKEILSPAHFNQPMVKEAPVVLTFCADFRRFCKYCQERNAVPGYGNLMSFLNAAMDTLLVAQTFCTLAEEAGLGICYLGTTTYNPQMIIDALHLPELVFPITTVTVGYPAESPKQVDRLPIEGIIHEESYHDYTAEDINRLYAYKESLPENKLFIEENQKETLPQVFTDVRYTKKDNEFMSENLLKVLRRQGFMD | 0.556 | 56 | 0.77078 | In | 0.53 | In | -0.63 | S |
| >3c08ffc1f9487d902447ab866f7d18c590d37a2a |  |  |  |  |  |  |  |  |
| MRGSHHHHHHGSMTQVAKKILVTCASPYANGSIHLGHMLEHIQADVWVRYQRMRGHEVNFICADDAHGTPIMLKAQQLGITPEQMIGEMSQEHQTDFAGFNISYDNYHSTHSEENRQLSELIYSRLKENGFIKNRTISQLYDPEKGMFLPDRFVKGTCPKCKSPDQYGDNCEVCGATYSPTELIEPKSVVSGATPVMRDSEHFFFDLPSFSEMLQAWTRSGALQEQVANKMQEWFESGLQQWDISRDAPYFGFEIPNAPGKYFYVWLDAPIGLMGSFKNLCDKRGDSVSFDEYWKKDSTAELYHFIGKDIVYFLSLFWPAMLEGSNFRKPSNLFVHGYVTVNGAKMSKSRGTFIKASTWLNHFDADSLRYYYTAKLSSRIDDIDLNLEDFVQRVNADIVNKVVNLASRNAGFINKRFDGVLASELADPQLYKTFTDAAEVIGEAWESREFGKAVREIMALADLANRYVDEQAPWVVAKQEGRDADLQAICSMGINLFRVLMTYLKPVLPKLTERAEAFLNTELTWDGIQQPLLGHKVNPFKALYNRIDMRQVEALVEASK | 0.484 | 40 | 0.668861 | In | 0.563 | In | 0.16 | In |
| >d9f60e5b46d10f888b2c44543f5863a2a954d6db |  |  |  |  |  |  |  |  |
| MSAPRKVRLPSVKAVDMSMEDMAARLARLESENKALKQQVLRGGACASSTSVPSAPVPPPEPLTARQREVMITQATGRLASQAMKKIEDKVRKSVDGVTTRNEMENILQNLTLRIQVSMLGAKGQPSPGEGTRPRESNDPNATRRARSRSRGREAKKVQISD | 0.571 |  | 0.565371 | In | 0.874 | In | 0.9 | In |
| >682944699f2edf34bdf03e30c72b7d2667dbd41b |  |  |  |  |  |  |  |  |
| SKDVSSTITTVSASPDGTLNLPAAAPLSIASGRLNQTILETGSQFGGVARWGQESHEFGMRRLAGTALDGAMRDWFTNECESLGCKVKVDKIGNMFAVYPGKNGGKPTATGSHLDTQPEAGKYDGILGVLAGLEVLRTFKDNNYVPNYDVCVVVWFNEEGARFARSCTGSSVWSHDLSLEEAYGLMSVGEDKPESVYDSLKNIGYIGDTPASYKENEIDAHFELHIEQGPILEDENKAIGIVTGVQAYNWQKVTVHGVGAHAGTTPWRLRKDALLMSSKMIVAASEIAQRHNGLFTCGIIDAKPYSVNIIPGEVSFTLDFAHPSDDVLATMLKEAAAEFDRLIKINDGGALSYESETLQVSPAVNFHEVCIECVSRSAFAQFKKDQVRQIWSGAGHDSCQTAPHVPTSMIFIPSKDGLSHNYYEYSSPEEIENGFKVLLQAIINYDNYRVIRGHQFPGDDDDKHHHHHHHHSGD | 0.709 | 73 | 0.548157 | In | 0.573 | S | -0.03 | S |
| >4e8d33602996290b0b6f5fe3ab71aca4bc71cd77 |  |  |  |  |  |  |  |  |
| SNAMTITNSKAEAWELIGNQFWTIGRVAARPSDRENDIFLENIVPGSTVAVIGASTRFLIEKALERGASVTVFDFSQRMCDDLAEALADRCVTIDLLDITAEIPKELAGHFDFVLNDRLINRFTTEEARRACLGMLSLVGSGTVRASVKLGFYDIDLKLIEYGEQSGTLAKFFDPSDKTFHFREAGDVLDRALVPHGLIDKPTLLEWYRRRGKETRFDDEDVRALLSHDVVNARGYVTLEKAVELPDAPNTMLYQFSRRAG | 0.568 |  | 0.671091 | S | 0.639 | In | -0.78 | S |
| >0ea34b6310e34f89256d4429c5e876c44a21c160 |  |  |  |  |  |  |  |  |
| MKIRFGICGLGFAGSVLMAPAMRHHPDAQIVAACDPNEDVRERFGKEYGIPVFATLAEMMQHVQMDAVYIASPHQFHCEHVVQASEQGLHIIVEKPLTLSRDEADRMIEAVERAGVHLVVGTSRSHDPVVRTLRAIVQEGSVGRVSMLNCFNYTDFLYRPRRPEELDTSKGGGIIYNQLPHQIDSIKTITGQRITAVRAMTGRLDPKRPTEGNCAAMLTLEDGACAVMVYSGYDHFDSDEMHFWLAEGGRAKQPNHGGARKVLRQLEGDEAELRRSRYGFGGPISKSMESGNTDRKQPHFGVMLVTCEHADLRASPEGVLVYGDEGVREVPAITGRGPFSQGDTIDELRDAIAGVAPALRDARWGKDTLEVCLAVLESSATGRQVER | 0.55 | 54 | 0.792737 | In | 0.595 | In | 0.06 | In |
| >f87e7238e7edb5f29545300eeb8ec3939e09b03d |  |  |  |  |  |  |  |  |
| MERYESLFAQLKERKEGAFVPFVTLGDPGIEQSLKIIDTLIEAGADALELGIPFSDPLADGPTIQNATLRAFAAGVTPAQCFEMLALIREKHPTIPIGLLMYANLVFNKGIDEFYARCEKVGVDSVLVADVPVEESAPFRQAALRHNVAPIFICPPNADDDLLRQIASYGRGYTYLLSRAGVTGAENRAALPLNHLVAKLKEYNAAPPLQGFGISAPDQVKAAIDAGAAGAISGSAIVKIIEQHINEPEKMLAALKVFVQPMKAATRS | 0.319 | 68 | 0.603086 | S | 0.573 | S | 0.08 | In |
| >8079c8ba6d03172ad5e77779546b942ca43f6a7f |  |  |  |  |  |  |  |  |
| MLGENAPEMTAEVTILDKQIVEIPDTQPGEEDQEFWIYVQKGRFGPKREFEVGVHYFHALNPGDKGIMTYQGRKFHHFALKRDLEHHHHHH | 0.789 | 95 | 0.966431 | S | 0.763 | S | -1.68 | S |
| >817569909e780b9740beb3747e17cafbc866191a |  |  |  |  |  |  |  |  |
| AGVPFNTKYPYGPTSIADNQSEVTAMLKAEWEDWKSKRITSNGAGGYKRVQRDASTNYDTVSQGMGYGLLLAVCFNEQALFDDLYRYVKSHFNGNGLMHWHIDANNNVTSHDGGDGAATDADEDIALALIFADKLWGSSGAINYGQEARTLINNLYNHCVEHGSYVLKPGDRWGGSSVTNPSYFAPAWYKVYAQYTGDTRWNQVADKCYQIVEEVKKYNNGTGLVPDWCTASGTPASGQSYDYKYDATRYGWRTAVDYSWFGDQRAKANCDMLTKFFARDGAKGIVDGYTIQGSKISNNHNASFIGPVAAASMTGYDLNFAKELYRETVAVKDSEYYGYYGNSLRLLTLLYITGNFPNPLSDL | 0.578 | 11 | 0.526393 | In | 0.648 | S | 1 | In |
| >7c302ae3469e37f88601101ddd814717decceace |  |  |  |  |  |  |  |  |
| MIFSENRFTLFRIMLRQPPPRRLSSACSPAGRTLRPNVAACARNTLIASNPMVSPKHVCVIGAGVSGLAAAKAFSSRGHRVTILERSGDLGGVWEPARSYPDVQTQSPKDLYRYTDRAMPDVYPEWPTGPQVHAYLADYAKSFGLDRMLRLNTEVAGMARRADGKPGWTLALTTKDGKATNEDFDFVAVCIGQFNEPRELHCPGEDGFLAQGGQILHSSKYSDPALAKGRRVVVLGGSKSATDIAVNAVKSGAREVTIVMREPVWRIPYFIGGLVNFKRILYIRAQEEMFPGWGASAMARLAHRIAAPLIWANWRGLESLLKAQLKLGPCKMVPNERIEDGVNCSVPIATPGFYPMVADGRIKAVFGTFDYYEGDSIVMSGGERVGADVAVLAIGYKLGVPFLPAAYQQKLVDADGQYRLYRLIANPDLPELGFVGFNSSFCTVLCADLAANWLVRYADGQLANQPTAQAMRDNIEMMLHFKRVERPAAGVYGGLCVAPYHYRHFDELMADIGARNQKRGGLAGHFQPPDADAYAKFLATAPDYRATALEHHHHHH | 0.573 | 24 | 0.729666 | In | 0.806 | In | 1.57 | In |
| >287c2d80293dd8ebdee852b81452f767deff326e |  |  |  |  |  |  |  |  |
| MSLSIYQLDSEKFAAMIALGAENLAKNADFVDSLNVFPVPDGDTGTNMNLSMTSGAEEVAKNDKETISAVGANLAKGLLMGARGNSGVILSQLFRGFSKAIENKETLNAEEFAGAFVKGVETAYKAVMKPVEGTILTVAREAAKAGVAAASEHQDIELVMEAILKQGKVALEKTPDLLPVLKEVGVVDSGGQGLIIIYEGFYGALTGKMAEAPDYMASMGELINAEHHRHVQDFMSTEDIHFGYCTEIIVKINENKPGQKPFDEEQFRQDLSKLGDSLLVAADDEVVKVHVHVEHPGEVLNYGQQYGSLLKMKVENMREQHTEIVGDDKAPTKEKAAYGIVTVSAGEGLKKLFESMGVSVVLSGGQTMNPSTEDIVKAIESANAEQVFVLPNNKNIQMAAEQAAQILGDDKVQIIPTKTIPQGLTAVLSFQADQDFLANAEAMKAAIEDVASGQVTTAVRDTTVEGVEIKKDSFIGMVEGKIKVSCATLEEAAYETLEKLLDDDSEIITIIVGEDADTSKAETLADKVTEAFPDVEVEIHEGDQPVYPYIFAVEEGHHHHHH | 0.628 | 99 | 0.864627 | S | 0.585 | S | -1.89 | S |
| >85b3677c6ed6026031fece8b66a83b072d14c104 |  |  |  |  |  |  |  |  |
| GMTPIAQRDGQAIQLVGFDGDDTLWKSEDYYRTAEADFEAILSGYLDLGDSRMQQHLLAVERRNLKIFGYGAKGMTLSMIETAIELTEARIEARDIQRIVEIGRATLQHPVEVIAGVREAVAAIAADYAVVLITKGDLFHQEQKIEQSGLSDLFPRIEVVSEKDPQTYARVLSEFDLPAERFVMIGNSLRSDVEPVLAIGGWGIYTPYAVTWAHEQDHGVAADEPRLREVPDPSGWPAAVRALDAQAGRQQ | 0.503 | 47 | 0.813341 | S | 0.51 | S | -1.78 | S |
| >cc1fec7f36488b585e32875f589264cf1f557d1d |  |  |  |  |  |  |  |  |
| MNKDNSPSESLVNSSASEDKTVKTSMSANNPSINDSSLPERLPAMCGCDSQNREESANSGVQLSDHANESLSKQADDVIYEGGLEDKDSVFRAIIEDDDACEVLDDGIDNCEVEVRGIKYRIPVAIECHLCNEMMNLCLRRTRYRGQAREYPAYRCNRKGCQTFRSIRKVFGNCMSDVDNSGDATTRTMIYHPPHKVRKTSPGEFSDDDSKEFVVQRVYIPKIDNRNKDQSVKSLSVTDRMRKANQDRAIVFSEFADQLRRDIVANKRVRIKKHVEEDQQGTLFYISKELNPQEVIELQDVIIKTLISMRKIPPPMTMDDLPLFANCPYSKKAVDAGEFDMSETEERPRPKLPKTIYQNTRTHSDSLTERSRHFTYDELKHSMEANAEGPSTCRIGISRSERNSESLQWIGLKTYEDSTDGFAKSVNSEGERQQGINGQIDDEVFEDESRFKPVASMQDVMRTLSTPSTLRPPVSPLMKSFSSMDSSNFKNPINAHPPMFFSDPHFLINNNQFNSPTPFYALNSYFPSFPMDSSQVYQNATDEHFTPSGASEVVCTEQTPGHHFTYIHPDSGVRLTDPSAFLTSFVPSPITKVPPINFNDETSRSRSASAPSTSVYNTGEFERSHKKYENEEDEKLMDNQNFSDEQPKE | 0.449 | 85 | 0.735414 | In | 0.987 | In | 0.64 | In |
| >ff36b032fe0d44f0230af0d1f81bcc73cf2e0560 |  |  |  |  |  |  |  |  |
| GPGSMDKDLAGDMKALLAALGKEDDVSCGNGTGTAGSTYPSDSLEGKLDQLLGALRANGSDVWEGKPLQDDLGIRFDFKQKGSSGEQSHKPSAGSEESAKASLDSLMEEYVEAVGKVRMTEGSPDE | 0.877 | 100 | 0.796982 | S | 0.813 | S | -0.28 | S |
| >44a3a3d61c09ecbb048fd1140248651e3064bd80 |  |  |  |  |  |  |  |  |
| MSSKPKPIEIIGAPFSKGQPRGGVEKGPAALRKAGLVEKLKETEYNVRDHGDLAFVDVPNDSPFQIVKNPRSVGKANEQLAAVVAETQKNGTISVVLGGDHSMAIGSISGHARVHPDLCVIWVDAHTDINTPLTTSSGNLHGQPVAFLLKELKGKFPDVPGFSWVTPCISAKDIVYIGLRDVDPGEHYIIKTLGIKYFSMTEVDKLGIGKVMEETFSYLLGRKKRPIHLSFDVDGLDPVFTPATGTPVVGGLSYREGLYITEEIYKTGLLSGLDIMEVNPTLGKTPEEVTRTVNTAVALTLSCFGTKREGNHKPETDYLKPPK | 0.76 | 96 | 0.678205 | S | 0.609 | S | 1.42 | In |
| >19d1cb5cc02d5bc4e7a998cbad70d886b9ea60b7 |  |  |  |  |  |  |  |  |
| MLTTKSLVERFELEMIAGEAGLNKQIKNTDISRPGLEMAGYFSHYASDRIQLLGTTELSFYNLLPDEERKGRMRKLCRPETPAIIVTRDLEPPEELIEAAKEHETPLITSKIATTQLMSRLTTFLEHELARTTSLHGVLVDVYGVGVLITGDSGIGKSETALELIKRGHRLVADDNVEIREISKDELIGRAPKLIEHLLEIRGLGIINVMTLFGAGSILTEKRLRLNIHLENWHKEKLYDRVGLNEETLRILDTEITKKTIPVRPGRNVAVIIEVAAMNYRLNIMGINTAEEFNDRLNAEILRNGNNGNNGEEK | 0.323 | 71 | 0.528128 | In | 0.765 | In | -0.06 | S |
| >13ff251c4b4d04155757fd6f8b36996333fe65ab |  |  |  |  |  |  |  |  |
| GAENNMVRLSRIIIDPERLEEYNAYLKEEIEVSMRLEPGVLVLYAVAEKERPNHVTILEIYADEAAYKSHIATPHFKKYKEGTLDMVQMLELIDATPLIPGLKMK | 0.84 |  | 0.542279 | In | 0.685 | S | -1.51 | S |
| >4a472a4eddf81c00f3d7a7dc2987ee127af2d13e |  |  |  |  |  |  |  |  |
| MTAGLSAVVVGADRLGNIPDLLKGHNISITHHISGRDPSHQKKTLQLPSGTQLVILLTDFLGHNVMKTFRHAAQRGGIRVVACRRSVCSMQQALHQCGLCARSLPRGNAVPPSLEHHHHHH | 0.807 | 45 | 0.692853 | In | 0.539 | In | 1.05 | In |
| >42518d87a1637c791471e72456903c6fb7d21c4c |  |  |  |  |  |  |  |  |
| HTFQVPQNYTKANCTYCNTREYTFSYKGCCFYFTKKKHTWNGCFQACAEKYPCTYFYGPTPDILPVVTRNLNAIESLWVGVYRVGEGNWTSLDGGTFKVYQIFGSHCTYVSKFSTVPVSHHECSFLKPCLCVSQRS | 0.675 | 74 | 0.88206 | S | 0.695 | In | 1.62 | In |
| >2acc68f354816bbd9cafdac15741e2d9d1e0e0b2 |  |  |  |  |  |  |  |  |
| HMDKTVNLSACEVAVLDLYEQSNIRIPSDIIEDLVNQRLQSEQEVLNYIETQRTYWKLENQKKLYRGSLK | 0.122 | 76 | 0.866154 | S | 0.52 | In | -0.8 | S |
| >086134e77c43a0e5ad2adf1ff2787aa4af00bac3 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMEYKKFVEARRELNEKVLSRGTLNTKRFFNLDSAVYRPGKLDVKTKELMGLVASTVLRCDDCIRYHLVRCVQEGASDEEIFEALDIALVVGGSIVIPHLRRAVGFLEELREMEKNGETISLGS | 0.524 |  | 0.542706 | In | 0.659 | S | 0.39 | In |
| >6fecee09c34406da83fc02e7dad48b2dabc5ce40 |  |  |  |  |  |  |  |  |
| MKKRFSNLFHRSGKIMNLDDIINSMMPEVYQRLSTAVELGKWPDGVALTEEQKENCLQLVMLWQARHNIEAQHMTIDTNGQMVMKSKQQLKEDFGISAKPIAMFKMAGDPLEHHHHHH | 0.482 | 90 | 0.56068 | In | 0.684 | In | 0.28 | In |
| >c1766ac20cd1159f9592612dfe22a7c906330e2b |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMTWATDRLDACKAGSATPPPIVRTLKLGLLDDWGEGWVRKSWRPDPDLATADGSLFGGYLAALADQILAFAAMTVVPNDRLYRTVNLQLNFLKVSRNEPLAIEARVVAQTRQLITARAEFRRLDGTLIAEATAQQIVLAFEHRPAEQAALDAMDNGQTPGV | 0.27 | 24 | 0.775079 | S | 0.541 | S | -0.24 | S |
| >76cf36564a0415765d52db84a147e3626819243d |  |  |  |  |  |  |  |  |
| ADEIGDAAKKLGDASYAFAKEVDWNNGIFLQAPGKLQPLEALKAIDKMIVMGAAADPKLLKAAAEAHHKAIGSVSGPNGVTSRADWDSVNAALGRVIASVPENMVMDVYDSVSKITDPKVPAYMKSLVNGADAEKAYEGFLAFKDVVKKSQ | 0.798 | 99 | 0.695015 | S | 0.733 | S | 0.49 | In |
| >c9539f14fff018ae62278b76a19ca375b652b71c |  |  |  |  |  |  |  |  |
| GMSKVEQNAQHNIQQTSPNAAVQSGLQEWHRIIAEADWERLPDLLAEDVVFSNPSTFDPYHGKGPLMVILPAVFSVLENFQYARHFSSKSGYVLEFNANMGDELLTGVDLIEFNDAGKITDLVVMMRPASVVIDLSVEVGKRIAAAQS | 0.718 | 56 | 0.910188 | S | 0.603 | S | -0.64 | S |
| >9d682218ea9f0ec50593c1c150557dbdf7eb7f69 |  |  |  |  |  |  |  |  |
| MIPGGLSEAKPATPEIQEIVDKVKSQLEEKTNETYGKLEAVQYKTQVVAGTNYYIKVRAGDNKYLHLKVFKSLPGQNEDLVLTGYQVDKNKDDELTGF | 0.682 | 100 | 0.532285 | S | 0.779 | S | -0.05 | S |
| >4789d21b1bfb207a8518e2898aa5896b5d9921ef |  |  |  |  |  |  |  |  |
| GAMATDWLGSIVSINCGDSLGVYQGRVSAVDQVSQTISLTRPFHNGVKCLVPEVTFRAGDITELKILEIPGPGDNQHFGDLHQT | 0.869 | 71 | 0.86585 | S | 0.615 | S | 0.22 | In |
| >708715f4b19c73e1b29d05d8654f0034b3cf38e4 |  |  |  |  |  |  |  |  |
| AIAPVKKKRKAPGVAAAVAEDAGLKKCKIPSYCRSQPPARLISGEEDFSRKKCLAWFYEYAGPDEVVGPEGMEKFCEDIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQSRFDFLRSQLNDISSFKNIYTYAFDFARDKDQRSLDIDTAKSMLALLLGRTWPLFSVFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLDEFVEWQKNPSNIIARTVVKTMQTL | 0.584 | 73 | 0.638821 | In | 0.889 | In | -0.18 | S |
| >fc36a9bb7b5284a178ea7fb7047e9f04c2c9f86a |  |  |  |  |  |  |  |  |
| GPSIEYTATALQERCGSFCSASDILGFRAIEHLRRAKEIGLRNYDSLNYHLKNATALLEQIVDDLSIEKLKEAVSMMLSVNYYPKSIEFLLNIANSMDKGKLACQYVANGFLENDDRKQYYDKRILVYDLVFDTLIKVDELAEKKQSSKTQNQISISNDDEVKLRQKSYEAALKYNDRLFHYHMYDWLVSQNREEKLLDIETPFILPYLMEKAGSSLKISNILWVYYSRRSKFFESAEILYRLATSNFDITLFERIEFLSRANGFCNSVSPLSQKQRIVQLASRIQDACEVAGIQGDILSLVYTDARIDSAIKDELIKTLDGKILSTSELFNDFAVPLSYHEIALFIFKIADFRDHEVIMAKWDELFQSLRMEFNNTGKKEDSMNFINLLSNVLIKIGKNVQDSEFIFPIFELFPIVCNFFYETLPKEHIVSGSIVSIFITAGVSFNKMYYILKELIETSDSDNSVFNKEMTWLIHEWYKSDRKFRDIISYNDIIHLKEYKIDNDPIEKYVKNSGNNLGICFYKE | 0.228 | 56 | 0.728465 | In | 0.944 | In | -0.21 | S |
| >78ee28d4b3a22e66b816ee0297f18160da4dd73a |  |  |  |  |  |  |  |  |
| MTDTNVLANSATDNQETTHFGFETVRKDEKVHKVAQVFHSVAAKYDIMNDLMSGGIHRLWKRFTIDCSGARPGQRILDLGGGTGDLTAKFSRIVGEKGHVILADINNSMLNVGRDKLRDSGVVGNVHYVQANAEELPFPDNYFDCITISFCLRNVTDKDKALRSMFRVLKPGGRLLVLEFSKPILEPLSKLYDTYSFHILPKMGQLIANDADSYRYLAESIRMHPDQETLKGMMEEAGFEQTTYYNLTGGIVALHRGYKFLEHHHHHH | 0.561 | 37 | 0.829808 | In | 0.721 | In | 0.46 | In |
| >f298a93f0ac144a498310964079baa94a01158db |  |  |  |  |  |  |  |  |
| GASETQQWKTLEDTRSALMGVYGLTRAALADNNTHWICGDLRKGDFTVYKRSDLQAVSDNELNKPYDLLKKVSNWRRFYAVINAASVFMEKAPRTVELDRSYSEQNLKYDIAQVRALRAFAYFYMVRIWGDVPLVTYSYDNGTFPSMPRTDAQTVLSYAKAELLTAIEDLPYQYGTQTNLYYGSYGAQWQGKLFNKLSAYSVLAHICAWQGNYAEAETYSAFIIDHASEINAKYTSIADLTSETGLFYSNASVKGSRILGFNFAHNDNEATQSGHLEQLTLAYPLVQKSYPEIYISKDSLFSIFTNFDDLRFGIIDTIKYSSYYVQNLNEETPVFSKIKIIQDGSAKDNDFGVFGSSIVFTRLEDITLLRAEALCALNRSTEAVSYLNMIRTNRGLREVSFKKDFGNNRESLIAEIFEERRRELMGEGWRWYDLVRRQKLMKDNEAFLRLISSGGIYWPVSEDIITANSQIEQNEFWK | 0.434 | 9 | 0.721137 | In | 0.554 | In | 0.33 | In |
| >4578395ebb5c6ddd868c1c14facebefdce00723a |  |  |  |  |  |  |  |  |
| MAGRRVNVNVGVLGHIDSGKTALARALSTTASTAAFDKQPQSRERGITLDLGFSCFVVPLPGAEPGSSDTLLQVTLVDCPGHASLIRTIIGGAQIIDLMMLVIDVTKGMQTQSAECLVIGQIACQKLVVVLNKIDLLAEGKRQAAIDKMTKKMQKTLENTKFRGAPIIPVAAKPGGPEAPETEAPQGISELIELLKSQISIPTRDPSGPFLMSVDHCFSIKGQGTVMTGTILSGTISLGDSVEIPALKVVKKVKSMQMFHTPVTSAMQGDRLGICVTQFDPKLLERGLVCAPESLHTVHAALISVEKIPYFRGPLQTKAKFHITVGHETVMGRTLFFSPAPDSFDLEPVLDSFDLSREYLFQEQYLCKDSMPTATEGDDEADPKAGHAPGGHCPRQQWALVEFEKPVTCPRLCLVIGSRLDADIHTNTCRLAFHGVLLQGLEDKNYIESFLPALRVYKLKHKHGLVERVMDDYSVIGRSLFKKETNIQLFVGLKVQLSTGEQGIIDSAFGQSGKFKIHIPGGLSPESKKILTPTLKKRSRAGRGETTKPEEGTERPEPIQPVTLNLSFKRYVFDTQKRMVQTP | 0.609 | 81 | 0.521424 | S | 0.522 | In | 1.23 | In |
| >2984081f9803cd45535c75ae67d8af3d2bf75480 |  |  |  |  |  |  |  |  |
| MVKKNDLFVDVSSHNGYDITGILEQMGTTNTIIKISESTTYLNPCLSAQVEQSNPIGFYHFARFGGDVAEAEREAQFFLDNVPMQVKYLVLDYQDDPSGDAQANTNACLRFMQMIADAGYKPIYYSYKPFTHDNVDYQQILAQFPNSLWIAGYGLNDGTANFEYFPSMDGIRWWQYSSNPFDKNIVLLDDEEDDKPKTAGTWKQDSKGWWFRRNNGSFPYNKWEKIGGVWYYFDSKGYCLTSEWLKDNEKWYYLKDNGAMATGWVLVGSEWYYMDDSGAMVTGWVKYKNNWYYMTNERGNMVSNEFIKSGKGWYFMNTNGELADNPSFTKEPDGLITVA | 0.557 | 8 | 0.614771 | S | 0.524 | In | 0.15 | In |
| >8fb2b486bd633f2d5e64e8192bac76289b7b0dde |  |  |  |  |  |  |  |  |
| MGHHHHHHSHSLDSQKGQLVRGKVCEYSTDGAYIDIGGKAPAFLPKREAALHAVLDLEAHLPKDEELEFLVIRDQNEDGQVTVSLRALALEQAWTRVAELQEG | 0.769 | 96 | 0.913627 | S | 0.84 | S | -2.06 | S |
| >39eff3e015715c37af397bf80f9fbf35cd89155a |  |  |  |  |  |  |  |  |
| MSLNRHFTVSVFIVCKDKVLLHLHKKAKKMLPLGGHIEVNELPEEACIREAKEEAGLNVTLYNPIDINLKKSCDLSGEKLLINPIHTILGDVSPNHSHIDFVYYATTTSFETSPEIGESKILKWYSKEDLKNAHNIQENILVMATEALDLLEGHHHHHH | 0.834 | 99 | 0.949946 | S | 0.608 | S | -0.51 | S |
| >44de9b707e690c0a40dc6ba53299814f379a711b |  |  |  |  |  |  |  |  |
| MKKGHHHHHHGSERTGTQPLGVQGLTEEQRMMIRELMDAQMKTFDTTFSHFKNFRLPGVLSSGCELPESLQAPSREEAAKWSQVRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLLPHMADMSTYMFKGIISFAKVISYFRDLPIEDQISLLKGAAFELCQLRFNTVFNAETGTWECGRLSYCLEDTAGGFQQLLLEPMLKFHYMLKKLQLHEEEYVLMQAISLFSPDRPGVLQHRVVDQLQEQFAITLKSYIECNRPQPAHRFLFLKIMAMLTELRSINAQHTQRLLRIQDIHPFATPLMQELFGITGSGGSGGSSHSSLTERHKILHRLLQEGSPS | 0.576 | 35 | 0.687365 | S | 0.664 | S | 0.81 | In |
| >cc949bbbcb60476c17cae58354c61b568780ba96 |  |  |  |  |  |  |  |  |
| MSRLDKSKVINSALELLNEVGIEGLTTRKLAQKLGVEQPTLYWHVKNKRALLDALAIEMLDRHHTHFSPLEGESWQDFLRNNAKSFRNALLSHRDGAKVHLGTRPTEKQYETLENQLAFLTQQGFSLENALYALSAVGHFTLGSVLEDQEHQVAKEERETPTTDSMPPLLRQAIELFDHQGAEPAFLHGLESLIRGFEVQLTALLQIV | 0.569 | 65 | 0.85062 | S | 0.845 | S | -0.7 | S |
| >b7b61712157b1958ba83e78f0f385ad449f351b8 |  |  |  |  |  |  |  |  |
| NAMAIHVGIIDQDPVRLVTPLLDHRTVSRHIIFIGDHTQTVIYQRLSDVLNKRNISTDFFEIPAGSNTSAIKSAIRELAETLKARGEEVKFNASCGLRHRLLSAYEVFRSYHWPIFVVEPNSDCLCWLYPEGNNDTQVQDRITIADYLTIFGARGEFNEHQLSPQLDQQLYQLGERWASNALELGPGLATLNYLATTCRKEQKLDVELSDKQQGYRELNLLLSDLVEAKIASYENGILTFINEEARRFANGEWLETLVHSTVKQIQDDMPTIQDRSLNVQVYRQLGEREVRNELDVATVVNNKLHIIECKTKGMRDDGDDTLYKLESLRDLLGGLQARAMLVSFRPLRHNDITRAEDLGLALIGPDELKDLKTHLTQWFKAAGGN | 0.409 | 44 | 0.595843 | S | 0.618 | S | -0.55 | S |
| >3a44942728b6d1678b5b0c73500833efdf2f885c |  |  |  |  |  |  |  |  |
| SPVPFGPEGRLEDKLHKPKATQTEVKPSVRFNLRTSKDPEHEGCYLSVGHSQPLEDCSFNMTAKTFFIIHGWTMSGIFENWLHKLVSALHTREKDANVVVVDWLPLAHQLYTDAVNNTRVVGHSIARMLDWLQEKDDFSLGNVHLIGYSLGAHVAGYAGNFVKGTVGRITGLDPAGPMFEGADIHKRLSPDDADFVDVLHTYTRSFGLSIGIQMPVGHIDIYPNGGDFQPGCGLNDVLGSIAYGTITEVVKCEHERAVHLFVDSLVNQDKPSFAFQCTDSNRFKKGICLSCRKNRCNSIGYNAKKMRNKRNSKMYLKTRAGMPFRVYHYQMKIHVFSYKNMGEIEPTFYVTLYGTNADSQTLPLEIVERIEQNATNTFLVYTEEDLGDLLKIQLTWEGASQSWYNLWKEFRSYLSQPRNPGRELNIRRIRVKSGETQRKLTFCTEDPENTSISPGQELWFRKCRDGWRMKNETSPTVELP | 0.566 | 31 | 0.68643 | In | 0.801 | In | 1.32 | In |
| >707d147d18780d744fbf1c6faa0fc8274c6b43a1 |  |  |  |  |  |  |  |  |
| MSLNKKVFIIDKQTVYQEIDNFSASDAWRCAFIGKNWPQEKKEKIADLLFKREFDEKGNPIGMALTNWRVNIGAGSYENREAKEVDNSWNRTECFLSPDGKYDFTKQAGQQWFMKAARERGMNNFLFFTNSAPYFMTRSASTVSTDQDCINLQNDKFDDFARFLVKSAQHFREQGFHVNYISPNNEPNGQWHANSFQEGSFATKADLYRMVEELDKAISEAQIDTKILIPEVGDMKYLFEIDSIAKTPDDIIHSMFYKDGQYSVLKFKNLFNCVAAHDYWSAYPATLLVDIRNRIHKELSANGHNTKFWASEYCILEKNEEITMPASPERSINLGLYVARIIHNDLTLANASAWQWWTAVSLGEDVPIQLLPLEGSNGLSLQYDGEISTTKMLWTTANYSFFVRPGMKRIAIKPTYKISDLEAATSLMISSYTDGKEVVTVAINYSKENQVISLNCDHAQKGKVYLTTIDKNLRYMGEQPLKKLQLPARSVATIVVEDNEGHHHHHH | 0.35 | 44 | 0.52229 | In | 0.757 | In | 0.35 | In |
| >4d79b206311e869ef2d5bef2fb434de4f7239966 |  |  |  |  |  |  |  |  |
| MSLNPKKILIIDDEAVFREAMTRALTSCGYRCVPEEDPAKGIMRLKREPYDLVLLDIMMDPVDGWDTLAHLRTFSNGRETPVIMASAKKLNIDEVIRYGEYLAGFVEKPFVDTEFCDAIDEFFDWYDPLIANANAARLQGVSPDICTSWIRVGRQIKAITQMLEYVNPSCIPDESMSEDECMDRRMAQVREILERKRRERDNIKILYPVFSEGHHHHHH | 0.777 | 83 | 0.847798 | In | 0.57 | S | -1.27 | S |
| >6c14545ab8ba4a832b49cd501110bc42c1227c0b |  |  |  |  |  |  |  |  |
| MGEPRSQPPVERPPTAETFLPLSRVRTIMKSSMDTGLITNEVLFLMTKCTELFVRHLAGAAYTEEFGQRPGEALKYEHLSQVVNKNKNLEFLLQIVPQKIRVHQFQEMLRLNRSAGSDDDDDDDDDDDEEESESESESDE | 0.311 | 91 | 0.610699 | In | 0.701 | In | -2.67 | S |
| >2b90e8208c3c3c7b596a2be3557a9f8d47e88393 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGENLYFQGHMTQQPQAKYRHDYRAPDYQITDIDLTFDLDAQKTVVTAVSQAVRHGASDAPLRLNGEDLKLVSVHINDEPWTAWKEEEGALVISNLPERFTLKIINEISPAANTALEGLYQSGDALCTQCEAEGFRHITYYLDRPDVLARFTTKIIADKIKYPFLLSNGNRVAQGELENGRHWVQWQDPFPKPCYLFALVAGDFDVLRDTFTTRSGREVALELYVDRGNLDRAPWAMTSLKNSMKWDEERFGLEYDLDIYMIVAVDFFNMGAMENKGLNIFNSKYVLARTDTATDKDYLDIERVIGHEYFHNWTGNRVTCRDWFQLSLKEGLTVFRDQEFSSDLGSRAVNRINNVRTMRGLQFAEDASPMAHPIRPDMVIEMNNFYTLTVYEKGAEVIRMIHTLLGEENFQKGMQLYFERHDGSAATCDDFVQAMEDASNVDLSHFRRWYSQSGTPIVTVKDDYNPETEQYTLTISQRTPATPDQAEKQPLHIPFAIELYDNEGKVIPLQKGGHPVNSVLNVTQAEQTFVFDNVYFQPVPALLCEFSAPVKLEYKWSDQQLTFLMRHARNDFSRWDAAQSLLATYIKLNVARHQQGQPLSLPVHVADAFRAVLLDEKIDPALAAEILTLPSVNEMAELFDIIDPIAIAEVREALTRTLATELADELLAIYNANYQSEYRVEHEDIAKRTLRNACLRFLAFGETHLADVLVSKQFHEANNMTDALAALSAAVAAQLPCRDALMQEYDDKWHQNGLVMDKWFILQATSPAANVLETVRGLLQHRSFTMSNPNRIRSLIGAFAGSNPAAFHAEDGSGYLFLVEMLTDLNSRNPQVASRLIEPLIRLKRYDAKRQEKMRAALEQLKGLENLSGDLYEKITKALA | 0.434 | 37 | 0.605946 | In | 0.523 | In | -0.85 | S |
| >c7daa436a5266bea4b9e7049bf01de36545acc06 |  |  |  |  |  |  |  |  |
| MAHHHHHHMGSFCAKPDAAPKDDVHEGEKNYQEGEKSFNDANVEAKSKEQPCDKADAAKDVEATDGEAKCAEAEGVEATDGEAKCTEAEGVEATDGEAKCAEAEDMEEKQEKFEVDPKNESDDMERQADEKREEWEQKVEEEGQHITDDTENHISCSG | 0.764 | 100 | 0.874629 | S | 0.579 | S | -5.96 | S |
| >ed8e27f08cd896b6a5fba06ee395137e6455deb5 |  |  |  |  |  |  |  |  |
| MSSQTLDRDPTFPLALIAKNTPANSMIMTKLPSVKVKTEGYNPSVNVNELFAYVDLSGSEPGEHDYEVKVDPIPNIKIVEISPRVVTLQLDTVEERMLPVTVEVSGAPVNGKKVGETIVKPSVVNVRGPSSLLGEVDKVLVELSAAGASETLQVSRPLLFRDKNGLAIFGPDPSVETITSSPTSVDIIVPIVAKELESKMVPLNATTTGTPAEGKEVRSIQVIPSGVQVYGEPEALAQFSALSIGSVNINGLSETKTYEISSDKVSLPEGLNYGSRTTFSVIVEMGSAVQDKTLYDLPIVLRNLPEDLVLEKPLPEVSVTIRAYPEILNNLTKEQISLWIDATGKAVGEHTVKIYWQLPAGIEMVSIPDVTYTLKAKEDPPKEPDNPGTPGNPGNPGNSNNSGNQPVVLEHHHHHH | 0.618 | 99 | 0.762746 | S | 0.647 | S | 0.8 | In |
| >2185f030e0d8431bf11b39b7d0a87256e616fa9a |  |  |  |  |  |  |  |  |
| MAHHHHHHMRKTGGKIHCVVEPPIALTSPSFTSIFQMVQRQLYLIPKLMMYPTIKMRINIKAGCCFHTLSTIKEILVTIKIIDSINKSTHLSPPKKKSSKECKAKLIGRSKKNSEQYFKKGGQGQRRQLSTKYSELYLPLTTVGSH | 0.532 | 87 | 0.561615 | S | 0.788 | In | -1.18 | S |
| >60a0428bbe5b8623f58970c0f239f4476c58a9a3 |  |  |  |  |  |  |  |  |
| MHPKIFALLAKFPRVELIPWETPIQYLPNISREIGADVYIKRDDLTGLGIGGNKIRKLEYLLGDALSKGADVVITVGAVHSNHAFVTGLAAKKLGLDAILVLRGKEELKGNYLLDKIMGIETRVYDAKDSFELMKYAEEIAEELKREGRKPYVIPPGGASPIGTLGYVRAVGEIATQSEVKFDSIVVAAGSGGTLAGLSLGLSILNEDIRPVGIAVGRFGEVMTSKLDNLIKEAAELLGVKVEVRPELYDYSFGEYGKITGEVAQIIRKVGTREGIILDPVYTGKAFYGLVDLARKGELGEKILFIHTGGISGTFHYGDKLLSLL | 0.543 | 80 | 0.586339 | S | 0.673 | S | 0.69 | In |
| >7cf6dd2038c1c1977bfb31c9fa53c4db75537ee4 |  |  |  |  |  |  |  |  |
| MSLDDERTQVLLKRDSEVFLHQAMSTPCLDTLEAAEGIYIQDATGKKYMDFHGNNVHQLGYGHPHVIKRVQEQIAKLPFSPRRFTNETAIECAEKLTQICGGELNRVLFAPGGTSAVGMALKLARHITGNCKVVSLWDSFHGASLDAISVGGEACFRQGMGPLMAGVERIPPAVSYRGAFPVADGSDVHYADYLEYVIEKEGGVGAFIAEAVRNTDVQVPSKAYWKRIREICDKHNVMLIIDDIPNGMGRSGEWFTYQAYDIEPDILCIGKGLGGGLVPIAAMVTKDKYNTAEQISMGHYTHEKSPIGCAAALATMEAIEQDGLLDKVKADSQFMREKLLEMKAKYPVIGDVRGIGMLWGIELVTDHESKARAYDEAEAVLYQCLNNGVSFKVSQGNVIQLSPPLIITREQLTEALAIFEEAIAKVCKDFNYFEGHHHYRNKGIITITTDPNSSSVDKLAAALEHHHHHH | 0.671 | 72 | 0.584883 | S | 0.557 | S | -0.36 | S |
| >939c14360ce402096707727f2352b2f9afd2d3d0 |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHMERKKLIAKFVEIASEKMGKDLETVDEENTFKELGFDSIDVIDLVMFFEDEFALRIEDEEISKIRKVKDLIDIVIKKLEEIDDEVSEG | 0.097 | 100 | 0.645591 | S | 0.796 | S | -4.9 | S |
| >7f834bd2750df157b3142b1cf35e8607ba0b5fdf |  |  |  |  |  |  |  |  |
| HRYIPTLFFHGWGSSYHAETHMADAIVKAGKTQTIVRAMVAKNGTVTLKGHFRSGDYRPIVEVNFANNRSSDYPTVGRWAKNVVVALQRTYGITSFNMVGHSMGNMAITYYLLANAQNKRLPQLRQQVAIAGHFNGILGMDDSPNQMTLNAAGRPNKLRPAYRQLLGLRRVYPRQQVRVLNIYGDKGDGTHSDGSVSNASSRSLRYLVAARARSYREVKLTGKHAQHSQLHENAQVDRLLIDFLWPTH | 0.49 | 8 | 0.649648 | In | 0.791 | In | 0.83 | In |
| >9a44eb12f497b5fb3ee52eb147c24862130cd282 |  |  |  |  |  |  |  |  |
| MEKIKILHRTPKGKIIGRVKKQPRFNSPVGIKLKDRVKKIGKIYDVFGPVEEPYVKIIPYSEDDAEKTLESDNVFVMNEQSKKQSKPRKKGRRLEHHHHHH | 0.435 | 100 | 0.590887 | S | 0.56 | S | -1.13 | S |
| >eac44127b2936251dd9b6a458b6faafd0aa9dc6b |  |  |  |  |  |  |  |  |
| MASKASGGSTRNGRDSISKRLGVKRYDGQFVKAGNIIVRQRGTRIYPGKNVGMGSDYTLFALKDGYVYFETRRKKKFVSVLSPEEWEKVMAQKNGKVHLEHHHHHH | 0.606 | 61 | 0.760011 | S | 0.661 | In | -0.38 | S |
| >adca1399821256b1578b94ec17279c1058ecff90 |  |  |  |  |  |  |  |  |
| MNIAEKYIEELKKAYYKNDGKEYWDKFEKIKIGATEENIKKIKEEFPETPDSLIELLKIVDGTYHREYQGEKITFYFLGSDVMGYPYYLLSSSQILENKKDGYCLFGGYIDGVYEDVEVDEKITDDSEKIKWLHFSDCMNNGGTSQLFIDFLPSEKGVKGQIVRYLHDPDEIEVIADSFDEYLEKLMEHDLDFISKDTIYLEHHHHHH | 0.316 | 99 | 0.565623 | In | 0.75 | S | -2.91 | S |
| >7b2c6cb20d5c1f5e7f32d1bc89cfa16e0f5d3b1a |  |  |  |  |  |  |  |  |
| MPPVSSARNLKELPKFRDGLSYLYVEHAVVEREAGGIGIYDQEGLTLAPVAGLGVLFLGPGTRITHAAVRLLAENGCTVAWVGEGMARFYAQGLGDTRSAARFYRQARAWADPALHLEVVMRLYRMRFSEPLPEGLTLEQVRGLEGVRVRNAYARWSRETGVPWYGRSYDRGNWRAADPVNRALSAGASYLYGLAHAAIVSLGFSPALGFIHTGKLLSFVYDIADLYKADYLVPAAFRTVAESEEAVERRVRRALREAIQEGRLLERMAEDLLNLFRGLGLPEEEDPVEEDPTRPGGLWDLEGEVEGGVAYGGDDPGEGAEEPEG | 0.663 | 46 | 0.857629 | S | 0.678 | S | -0.13 | S |
| >e760a90b92ff24d23db65586bde94f45ec8febfd |  |  |  |  |  |  |  |  |
| MSLSPFDLPPDLRTRLRRLSLAPRAAAVLVGDGAHASRNRGGAMEFAQYRAYERGDDLRRIDWKLYSRSDKFFVRDAERESPVAIWIVLDASASMAQADLARPTWTRFDAARRLTAALIEIALLQGDRFGLVVAQDKGPLVLAPSGDKRQRDRIRLEISPLKPGGAPHWDRDLKTLGERIAPGDLVIFITDGFDEACVAAAERLAASGRDVSFVQLLTGDERDFPFDSSLRFRDPENRAELAGDGRSLRADFLKRFGEARAALRARLEGRGVRFAEHFSDQDPDAPIQALARAAAVREGHHHHHH | 0.522 | 88 | 0.822471 | S | 0.832 | In | 0.48 | In |
| >be62968952c24761413a9b5ead0d8ae34828712b |  |  |  |  |  |  |  |  |
| MPTFIVLSTLTDDGAETLVKNPERIKEVNQELERDFGVRVVAQYAVLGPYDFVNVVEAEDAATVARAMLHLASRGSVKTMTLEAIPVADLIARLK | 0.566 | 87 | 0.822973 | S | 0.65 | S | -1.57 | S |
| >172fd996d6ff3d306a8b959615ae45359e4449f4 |  |  |  |  |  |  |  |  |
| MQGVNIYNISAGTSVDLAAPVTTGDIVTFFSSAANLNAGAGNPNNTTLNLFAENGAYLLHIAFRLQENVIIFNSRQPDGPWLVEQRVSDVANQFAGIDGKAMVTVFDHGDKYQVVINEKTVIQYTKQISGLTSSLSYNATEETSIFSTVVEAVTYTGLALEHHHHHH | 0.397 | 26 | 0.5 | S | 0.749 | S | -0.13 | S |
| >ce682c46ac376312142f7929fe8cbb69ed9822a0 |  |  |  |  |  |  |  |  |
| MSDSKEVPSLPFLRHLLEELDSHEDSLLLFLCHDAAPGCTTVTQALCSLSQQRKLTLAALVEMLYVLQRMDLLKSRFGLSKEGAEQLLGTSFLTRYRKLMVCVGEELDSSELRALRLFACNLNPSLSTALSESSRFVELVLALENVGLVSPSSVSVLADMLRTLRRLDLCQQLVEYEQQEQARYRYCYAASPSLPVRTLRRGHGASEHEQLCMPVQESSDSPELLRTPVQESSSDSPEQTTLEHHHHHH | 0.502 | 47 | 0.682039 | S | 0.553 | In | -0.5 | S |
| >7776dbb04a359bfc9d55d4876ee9cf7aa9fcd21a |  |  |  |  |  |  |  |  |
| GGIAIYWGQNGNEGTLTQTCSTRKYSYVNIAFLNKFGNGQTPQINLAGHCNPAAGGCTIVSNGIRSCQIQGIKVMLSLGGGIGSYTLASQADAKNVADYLWNNFLGGKSSSRPLGDAVLDGIDFAIAHGSTLYWDDLARYLSAYSKQGKKVYLTAAPQCPFPDRYLGTALNTGLFDYVWVQFYNNPPCQYSSGNINNIINSWNRWTTSINAGKIFLGLPAAPEAAGSGYVPPDVLISRILPEIKKSPKYGGVMLWSKFYDDKNGYSSSILDSV | 0.626 | 31 | 0.775115 | In | 0.756 | In | 3.14 | In |
| >d40763ff8c612db900b0e1dec4adc7f289555d5e |  |  |  |  |  |  |  |  |
| MSLSISQLDKSASKSNTGLPLKPIQPTQYWTFDNALSLLRNCQDPYLADALDEFLLSSKEVLLNPSPFTLKNDKQSPNLQTRDISLRGILYTNISAQDTSDGKLLSNLLNLDVLETIRVICQTNKKIPCKTAPPQLEAIKSKLHDEKYYENKRLRLYSSKILRERRIILKIVTELLNNKSNSYASSSIQNLGKEIFLSKQYLESLIESIGKASQSLMKRSYITGINKEIDETIHNETVLFCIEACKVLIELSVQNANVDAQAVHLWFKLMRDTNYSVALGPYVSYHEAFSILQGLFTVLTIQYLNLNNSFDSVNETLSSSYMADVQVFKYVNDAIANTANNNSVVLYSWSIILLRKFYFLQEYPELPNSEKFLSQFNLSQLEHTINLVNQKCDNLDVFSSLKKLNELLKFDKLYSAILSTLIIASLPLITLTSEVTSCILSVIGNCPNNVIESFFENNATQNAIIIARTKFPLILSPYIQVASINGNFALHEFNDLKSYIQVFKKEGHHHHHH | 0.53 | 41 | 0.732874 | In | 0.93 | In | 1.25 | In |
| >068642bafe5c922842cdf1d76a1879894920f171 |  |  |  |  |  |  |  |  |
| QAGIIRDLLIWLEGHLDQPLSLDNVAAKAGYSKWHLQRMFKDVTGHAIGAYIRARRLSKSAVALRLTARPILDIALQYRFDSQQTFTRAFKKQFAQTPALYRRSPEWSAFGIRPPLRLGEFTMPEHKFVTLEDTPLIGVTQSYSCSLEQISDFRHEMRYQFWHDFLGNAPTIPPVLYGLNETRPSQDKDDEQEVFYTTALAQDQADGYVLTGHPVMLQGGEYVMFTYEGLGTGVQEFILTVYGTCMPMLNLTRRKGQDIERYYPAEDAKAGDRPINLRCELLIPIRRKLAAA | 0.512 | 15 | 0.597186 | In | 0.66 | S | 0.36 | In |
| >2b21e26544fcf7fda49ce4477495dbadd1617418 |  |  |  |  |  |  |  |  |
| MMPKLKTYSGQWEEILREREQRYAHGIDEEQLLALQERTPPHGNLSAAGIMRVQRDAAAKRGVPMRPDYGVLKQRLREIYPVYETVLRNGSEYREC | 0.41 | 84 | 0.759798 | In | 0.655 | In | 0.91 | In |
| >5bec4e0535aacb818a205af914d7b3b80c2723ee |  |  |  |  |  |  |  |  |
| MVKSRIFDNRQLLKEHPEIPHYKEEVVCFMSEYKDRSYPENERYFNRELYMILVLEGRSEILLNGEFIVIEPDMLLVHGANYLTDHLYSSPDIKFITLSISESMRTDDSYLTQITAILLATMRQNKQYTIQLTAYESQIIRNELEVLMRLLNIKHQFLFRRIQAACNALFLDIADFLSRKTIIKKEVSRKDHVLQEFHALVTRNFREEHFVSFYADKLAISEQYLARIVRAGTGKSVNTIINELLIMEARTLLSSTKSTVGDIASRLGFSDAAGFCKFFKRNMGQTPLNYRKGLWI | 0.233 | 36 | 0.823051 | In | 0.785 | In | 0.36 | In |
| >d4c6952707b886256d1b0d3131582567ccaa469c |  |  |  |  |  |  |  |  |
| SARPLVPSSQKALLLELKGLQEEPVEGFRVTLVDEGDLYNWEVAIFGPPNTYYEGGYFKARLKFPIDYPYSPPAFRFLTKMWHPNIYETGDVCISILHPPVDDPQSGELPSERWNPTQNVRTILLSVISLLNEPNTFSPANVDASVMYRKWKESKGKDREYTDIIRKQVLGTKVDAERDGVKVPTTLAEYCVKTKAPAPDEGSDLFYDDYYEDGEVEEEADSCFGDDEDDSGTEES | 0.817 | 95 | 0.844643 | S | 0.781 | S | -1.37 | S |
| >570a5e65b634dc5d861617e366777c6ca60ba0d4 |  |  |  |  |  |  |  |  |
| MSLSRYEMAQEAGVKLQDLLRLHHPSLESHSLYFPRNLQLPEGEVDLQLDTMRLEDRPGRQTVPVTVLVDGTAQAVVDAVVVIRKNVTVAVLKRQLKRDDIVALGDIDWQTIQISREGFRYVSDVREIVGKAASRPVRANIALQASWFEEPVAVERGDRVRVLLKDGALVINTVGVAGKDGRVGEAILVRNLSSNKSFLARVMAPGQVVAEGLEGHHHHHH | 0.845 | 78 | 0.73544 | S | 0.753 | S | 0.34 | In |
| >6ee7c1f3ccdd67984aa51b59070b5c5246b6f3e3 |  |  |  |  |  |  |  |  |
| MIFTLFKTRRNNRQIIDRQYAVLMEAARIPLFYEALDVPDTVMGRFEMLSLVLILYLRRTAKSERSGQEVAQEIIDAFFQDVDHSIRELGVGDQTVPKRMKKLAGMFYGRLETYGKALDLKDESALAAGFRRNIHPDVPEAARPAMTDLAHWAITAETYLLQTMEEAVITGSLAFPLPEQQVHRLEHHHHHH | 0.436 | 50 | 0.803795 | In | 0.587 | S | -0.97 | S |
| >412723b8ae4da1141d6f7dfd289f56eefe269fda |  |  |  |  |  |  |  |  |
| ADLEDNMETLNDNLKVIEKADNAAQVKDALTKMAAAAADAWSATPPKLEDKSPDSPEMHDFRHGFWILIGQIHDALHLANEGKVKEAQAAAEQLKTTCNACHQKYR | 0.701 | 100 | 0.856614 | S | 0.587 | S | -1.94 | S |
| >70f69955cf68e5bf254a799b0361b6e50a02ce4f |  |  |  |  |  |  |  |  |
| MGHHHHHHDYDIPTTENLYFQGMTDLNKLVKELNDLGLTDVKEIVYNPSYEQLFEEETKPGLEGFDKGTLTTLGAVAVDTGIFTGRSPKDKYIVCDETTKDTVWWNSEAAKNDNKPMTQETWKSLRELVAKQLSGKRLFVVEGYCGASEKHRIGVRMVTEVAWQAHFVKNMFIRPTDEELKNFKADFTVLNGAKCTNPNWKEQGLNSENFVAFNITEGIQLIGGTWYGGEMKKGMFSMMNYFLPLKGVASMHCSANVGKDGDVAIFFGLSGTGKTTLSTDPKRQLIGDDEHGWDESGVFNFEGGCYAKTINLSQENEPDIYGAIRRDALLENVVVRADGSVDFDDGSKTENTRVSYPIYHIDNIVRPVSKAGHATKVIFLTADAFGVLPPVSKLTPEQTEYYFLSGFTAKLAGTERGVTEPTPTFSACFGAAFLSLHPIQYADVLVERMKASGAEAYLVNTGWNGTGKRISIKDTRGIIDAILDGSIEKAEMGELPIFNLAIPKALPGVDPAILDPRDTYADKAQWQVKAEDLANRFVKNFVKYTANPEAAKLVGAGPKA | 0.64 | 72 | 0.613377 | In | 0.547 | S | 0.19 | In |
| >b0dee80fc216f1f520d6a5a09eb51d614e4b0d52 |  |  |  |  |  |  |  |  |
| MDPNVITVTSYANIAIIKYWGKENQAKMIPSTSSISLTLENMFTTTSVSFLPDTATSDQFYINGILQNDEEHTKISAIIDQFRQPGQAFVKMETQNNMPTAAGLSSSSSGLSALVKACDQLFDTQLDQKALAQKAKFASGSSSRSFFGPVAAWDKDSGAIYKVETDLKMAMIMLVLNAAKKPISSREGMKLCRDTSTTFDQWVEQSAIDYQHMLTYLKTNNFEKVGQLTEANALAMHATTKTANPPFSYLTKESYQAMEAVKELRQEGFACYFTMDAGPNVKVLCLEKDLAQLAERLGKNYRIIVSKTKDLPDV | 0.509 | 68 | 0.73343 | In | 0.857 | In | 0.51 | In |
| >876abf155d62dd1d7d1f3fa284a7f438769330c6 |  |  |  |  |  |  |  |  |
| GSQSRSIQTFPQPDTSVINGPDRPAGIPDPAGTTVAGGGAVYTVVPHLSMPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPIHSFQAKRFFERYFTPWQVAGNGSLAGTVTGYYEPVLKGDGRRTERARFPIYGIPDDFISVPLPAGLRGGKNLVRIRQTGKNSGTIDNAGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGGALDGKAPILGYAEDPVELFFMHIQGSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMADKGYLKLGQTSMQGIKAYMRQNPQRLAEVLGQNPSYIFFRELAGSGGDGPVGALGTPLMGEYAGAIDRHYITLGAPLFVATAHPVTRKALNRLIMAQDTGSAIKGAVRVDYFWGYGDEAGELAGKQKTTGYVWQLLPNGMKPEYRP | 0.488 | 25 | 0.667357 | In | 0.553 | S | 2.41 | In |
| >72ce2f8cf2404bb7da68a57f2cea33f3844504c8 |  |  |  |  |  |  |  |  |
| MRILYFTDTYYPTPDGVSVYLKEVKQKLEDEGHEVMIFSVTGDSREHNVYVPKYTAPFLPYPQYRVPVSFIPFRVFRRALEFNPDIVHLHNAFYMSSVGYLVARRIGVPPVATFHTDVSRMKESINMPFKNLAFDLGERYSLFLYRKCRMVMAPSATVEEYLKIRGVKNVVTLPLFVDTDKYRYVPADSGERYILYLGRITVDKGIYRVLDLAEAMKSEDVRFKIAGVGPELDRIRRIVKYHGMKNVEILGYVDDQRKMDLMANASLFVYPSSADTFGISVFEALASGVPVMVSEDFPVKENTEAISYVKFGDIRSAVETAERILHEDRRKLAAEARHLVESKYSLERHISSLLEIYDYIRAERRKMGSSEKMRADNSAYRLEHHHHHH | 0.529 | 67 | 0.80408 | In | 0.914 | In | 0.57 | In |
| >564656f46e3aeed37377c6e0460a9c1565c17a8f |  |  |  |  |  |  |  |  |
| MSSNIRFRVLDPYNDDISYTFDTKDEAKLYIEKSYPALRKNLAYVFRMEEVQAQQIFTLKSVQDILKALKSSGYYIEPIHNGKIEDCLGEGDIEEFRAFFSGRFRFFREK | 0.552 | 62 | 0.569876 | In | 0.615 | In | -0.06 | S |
| >bb7b3f1b6ce6f3410e9634c379c3649570392481 |  |  |  |  |  |  |  |  |
| MSYYHHHHHHLESTSLYKKAGSENLYFQGNKKDIPWTDLNRASGVGSTGILQARIINGVIYVRGNSIPVPNVAPNFIVPVGTFPPAFGTNLPQFDSSGTFYSHGNLSLSLINMSPSGIAVGNPNNTSMNGKTISFALSAPLL | 0.7 | 82 | 0.75024 | In | 0.594 | In | 4.11 | In |
| >f923085edfe5d7796cf1afbe6b63b72f682c2ad9 |  |  |  |  |  |  |  |  |
| MSLEWILFDKDGTLIEFDRSWEKIGVRFVQSLLETFPVHNKEAALRQLGVIKESIDPKSVMGSGSLQQIIQAFNDVTGQDTTDWSKSTSQKLVDERIPEINWVEGVKEALIDLKAKGYQLGIVTSDTKKGVEQFLAHTNAISLFDLIISTEADAYEKPNPKVLSPLFEQYNVDPQKVAIVGDTANDMKTASNANLGMAIGVLTGIATKEELHEADIILNSAADILEALNEGHHHHHH | 0.753 | 91 | 0.679399 | S | 0.886 | S | -1.28 | S |
| >0ed954fabd920d875b38039c3bfd3d5000aa99f6 |  |  |  |  |  |  |  |  |
| VSYQDLKECKIITAFITPFHEDGSINFDAIPALIEHLLAHHTDGILLAGTTAESPTLTHDEELELFAAVQKVVNGRVPLIAGVGTNDTRDSIEFVKEVAEFGGFAAGLAIVPYYNKPSQEGMYQHFKAIADASDLPIIIYNIPGRVVVELTPETMLRLADHPNIIGVKECTSLANMAYLIEHKPEEFLIYTGEDGDAFHAMNLGADGVISVASHTNGDEMHEMFTAIAESDMKKAAAIQRKFIPKVNALFSYPSPAPVKAILNYMGFEAGPTRLPLVPAPEEDVKRIIKVVVDGDYEATKATVTGVLRPDY | 0.617 | 90 | 0.962988 | S | 0.503 | S | -1.32 | S |
| >c8221f4d6407ae635879a9ec56d2e7c5009def03 |  |  |  |  |  |  |  |  |
| EIPLKYGATNEGKRQDPAMQKFRDNRLGAFIHWGLYAIPGGEWNGKVYGGAAEWLKSWAKVPADEWLKLMDQWNPTKFDAKKWAKMAKEMGTKYVKITTKHHEGFCLWPSKYTKYTVANTPYKRDILGELVKAYNDEGIDVHFYFSVMDWSNPDYRYDIKSKEDSIAFSRFLEFTDNQLKELATRYPTVKDFWFDGTWDASVKKNGWWTAHAEQMLKELVPGVAINSRLRADDKGKRHFDSNGRLMGDYESGYERRLPDPVKDLKVTQWDWEACMTIPENQWGYHKDWSLSYVKTPIEVIDRIVHAVSMGGNMVVNFGPQADGDFRPEEKAMATAIGKWMNRYGKAVYACDYAGFEKQDWGYYTRGKNDEVYMVVFNQPYSERLIVKTPKGITVEKATLLTTGEDITVVETTRNEYNVSVPKKNPGEPYVIQLKVRAAKGTKSIYRDALT | 0.509 | 41 | 0.790702 | S | 0.701 | In | 0.89 | In |
| >9cbffec6a80e45034e2568531632f88babe0bc29 |  |  |  |  |  |  |  |  |
| MNTNISGPLISLIVPVYNVKDYLKTCLQSILEQTYKNLEIILVDDGSDDGSSGICDEYARMDQRIKTIHLPHSGVSAARNAGLAAATGELLGFVDSDDWIDHDMYQYLYTLMQEHDADVSACTYLLEQEGRPSKIINNTGKLYVFSRKEIIRALVKNDLVKNYLWAKLFKRKLFDRLSFPVGRVYEDVAVLYKVFYSSQKVVLSCVSKYHYMIHKNESITRGGYDPVKEYHYFLSLYEQDKFIQNAELGGESSVGVLKRGIHLINHTLLCPPSPAFEDIIDETMLKMREYRHITPWQLGPSMSIKRYFMCKHFGFYRMLYRGYRAIFKRKHKLLIDLEHHHHHH | 0.348 | 35 | 0.796347 | In | 0.922 | S | 0.67 | In |
| >6065cd7a976fcb16a25cca78054e94f77ef39598 |  |  |  |  |  |  |  |  |
| MMKQYIFSALCLVSGAFCLSSCNDDKEARPYTPDYEIVPEYTNADTWKAYEAFNEHLLDQNKFIYKSSTADKAAVDRWNGAAAIWCQPTYWDMAMNAYKRAKAEGDTQKEQKFKQLCDDLFAGNKAHYANFDFDDNNENTGWFIYDDIMWWTVTLARAYELFGVEEYLSLSEESFGRVWYGSEKVGDTGSYADPEKGLGGGMFWQWQPIKNPNPNEADHGKMACINFPTVVAALTLYNNVPTGRTESTDSHPSYQTKEQYLAKGKEIYAWAVENLVDVTTGQVADSRHGNGNPAWKDHVYNQASYIGASVLLYKATGEKQYLDNAVMAADYTMNTISGTFDLLPFETGAEQGIYTAVFAQYIAMLVYDCDQTQYIPFVKRNINYGWANRDKTRDICGGDYTKLQVEGDAVESYSASGIPALMLLFPTDKLEHHHHHH | 0.556 | 49 | 0.713794 | In | 0.607 | S | -0.87 | S |
| >901bc354a0ae0bf48552d36f95341134c6e31d4f |  |  |  |  |  |  |  |  |
| GSGAMAQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPFLKCYCSGHCPDDAINNTCITNGHCFAIIEEDDQGETTLASGCMKYEGSDFQCKDSPKAQLRRTIECCRTNLCNQYLQPTLPPVVIGPFFDGSIR | 0.845 | 99 | 0.537683 | S | 0.677 | In | 0.1 | In |
| >49bbd7ac6e146cdf4bf3c2e2086076bf25e50f2a |  |  |  |  |  |  |  |  |
| MILAVLFANSVGNVLIERFNGVPAEERLHWRSFLVKLGADNLKGVKNEELLVACHKSVYIVYTMLGDVSIFLVGKDEYDELALAETIYIITAAVKDVCGKPPTERVFLDKYGRICLCLDEIVWNGLLENTDKDRIKRLIRLKPPSEV | 0.306 | 94 | 0.65823 | S | 0.599 | S | -0.27 | S |
| >420d50539de57d2f56be6f3475854790651d166d |  |  |  |  |  |  |  |  |
| MSLPHLSLADARNLHLAAQGLLNKPRRRASLEDIPATISRMSLLQIDTINIVARSPYLVLFSRLGNYPAQWLDESLARGELMEYWAHEACFMPRSDFRLIRHRMLAPEKMGWKYKDAWMQEHEAEIAQLIQHIHDKGPVRSADFEHPRKGASGWWEWKPHKRHLEGLFTAGKVMVIERRNFQRVYDLTHRVMPDWDDERDLVSQTEAEIIMLDNSARSLGIFREQWLADYYRLKRPALAAWREARAEQQQIIAVHVEKLGNLWLHADLLPLLERALAGKLTATHSAVLSPFDPVVWDRKRAEQLFDFSYRLECYTPAPKRQYGYFVLPLLHRGQLVGRMDAKMHRQTGILEVISLWLQEGIKPTTMLQKGLRQAITDFASWQQATRVTLGRCPQGLFTDCRTGWEIDPVAAAALEHHHHHH | 0.339 | 30 | 0.774832 | In | 0.555 | In | 0.25 | In |
| >50d3ebbf5902348c9846ab67f74fa828015d61c5 |  |  |  |  |  |  |  |  |
| MSERRDAILKASATAIAQRGIRGLRVNDVAEVAGVSPGLLYYHFKDRIGLLEAALNYINDRARAYRSEGEGSGDSARDRLTRSLLGEIQDRPEVVENSLAWNELRASAVYEEALRDPLARTTAAWVSEIADAIVQAQATGEISRSLDPQPTAVTMTALVEGLSGRWLCKEISTEDARSHLLGAIDVVMSEPTHHTADTPVTPTPKEYR | 0.669 | 53 | 0.703273 | In | 0.819 | S | -0.4 | S |
| >f73c4a077b1fbb34361d4c1053cb03a8bc434285 |  |  |  |  |  |  |  |  |
| MGDMNEYTEDTLRATVQAAELAIRDSEERGRLLAEMWQGLGLAADAGELLFQAPERELARAAEEELLAELRRMRSSQPTQGEQGTRPRRPTPMRGLLILEHHHHHH | 0.551 | 36 | 0.881679 | S | 0.592 | S | -1.8 | S |
| >5f4137c8bc18d0c176b27c63e631d9a87a0cb608 |  |  |  |  |  |  |  |  |
| MPKERVDVLAYKQGLFETREQAKRGVMAGLVVNVINGERYDKPGEKIDDGTELKLKGEKLRYVSRGGLKLEKALAVFNLSVEDMITIDIGASTGGFTDVMLQNGAKLVYAVDVGTNQLVWKLRQDDRVRSMEQYNFRYAEPVDFTEGLPSFASIDVSFISLNLILPALAKILVDGGQVVALVKPQFEAGREQIGKNGIVRESSIHEKVLETVTAFAVDYGFSVKGLDFSPIQGGHGNIEFLAHLEKTDSPQNDVPTSIKEVVAQAHKEFKKNEEERSFGVNPKDCPRK | 0.577 | 90 | 0.871703 | S | 0.642 | In | 0.42 | In |
| >e5d7a4ea4a1c708ec213d2066286a835bd50a7b5 |  |  |  |  |  |  |  |  |
| MGSVTCTGCVDLDELSFEKTVERFPYSVVKFDIAYPYGEKHEAFTAFSKSAHKATKDLLIATVGVKDYGELENKALGDRYKVDDKNFPSIFLFKGNADEYVQLPSHVDVTLDNLKAFVSANTPLYIGRDGCIKEFNEVLKNYANIPDAEQLKLIEKLQAKQEQLTDPEQQQNARAYLIYMRKIHEVGYDFLEEETKRLLRLKAGKVTEAKKEELLRKLNILEVFRVHKVTKTAPEKEELRGSHHHHHH | 0.67 | 99 | 0.902985 | S | 0.783 | S | -0.53 | S |
| >ba99a5918124209c896cd7affd3eee287a4d0fba |  |  |  |  |  |  |  |  |
| MAGIRLLPEEPETTPQQQARAAAAVTTTTTDSLASDDDRSIAADSWSIKSEYGSTLDDDQRHADAAEALSSANFRVSSDYSSDKEEPDADGGGQSMLGLQSYWDAAYSDELTNFREHGHAGEVWFGDDVMEIVTSWTKDLCVEISQRNMSVSENDVTTEVNDQADKYLSSWNVLDLGTGNGLLLHQLAKEGFSDLTGTDYSDGAVELAQHLSQRDGFPNIRFMVDDILDTKLEQQFKLVMDKGTLDAIGLHPDGPVKRVMYWDSVSKLVAPGGILVITSCNHTKDELVEEVENFNIRKSNLCRGDGNDANNVLSSGSEAASRIDQPPFEYLSHVRTYPTFMFSGSVGSRVATVAFLRK | 0.445 | 59 | 0.791673 | In | 0.576 | S | -1.32 | S |
| >368d945ba4c9409d4154219054cef0b3f4ab9ee0 |  |  |  |  |  |  |  |  |
| MAHHHHHHMMGSSSPTQRTSQRISHNPYTTAGALCATPLATAAGLSIHSQGGAGGCKAGSSGPYDSFADALDNRYGSASDFNASVSAFPLSLAHNAHGTTHGTYYLRCAGDPTGFRSSPATSQRPSFYPSQRAAGDVDDSSRAGQQQEGRHESYASFYEGAEGAPASTHYSDIYQNAAADGTTQGFFFSMGEYEETGNSAEELYGGSPDYQISQGHVRPLEGKMNKSVGRGGSAYGGVPLPTRNMHHQQQQQRSVGGGNACNGGAYEDSTPTSALPYSSQSQQQHAYSPTSAAFQRH | 0.372 | 98 | 0.569949 | S | 0.918 | In | 2.21 | In |
| >1d20ce7c5c5bfb7341f8316e02307029a1489680 |  |  |  |  |  |  |  |  |
| MSLIVTIKKKLEETLIPEHLRAAGIIPVLAYDEDDHVFLMDDHSAGFGFMCEPLCGADEKVQERMNGFLNQEFPSKTTLQFVLFRSPDINQEMYRMMGLRDGFRHELLTSVIKERINFLQHHTTERIFAKTNKGIYDNGLIQDLKLFVTCKVPIKNNNPTESELQQLAQLRTKVESSLQTVGLRPRTMTAVNYIRIMSTILNWGPDASWRHDSVDWEMDKPICEQIFDYGTDVEVSKNGIRLGDYHAKVMSAKKLPDVFYFGDALTYAGDLSGGNSSIKENYMVVTNVFFPEAESTKNTLERKRQFTVNQAYGPMLKFVPVLADKKESFDTLYESMKEGAKPVKITYSVVLFAPTKERVEAAAMAARNIWRESRFELMEDKFVALPMFLNCLPFCTDRDAVRDLFRYKTMTTEQAAVVLPVFGEWKGTGTYHAALISRNGQLMSLSLHDSNTNKNLVIAAESGSGKSFLTNELIFSYLSEGAQVWVIDAGKSYQKLSEMLNGDFVHFEEGTHVCLNPFELIQNYEDEEDAIVSLVCAMASAKGLLDEWQISALKQVLSRLWEEKGKEMKVDDIAERCLEEENDQRLKDIGQQLYAFTSKGSYGKYFSRKNNVSFQNQFTVLELDELQGRKHLRQVVLLQLIYQIQQEVFLGERNRKKVVIVDEAWDLLKEGEVSVFMEHAYRKFRKYGGSVVIATQSINDLYENAVGRAIAENSASMYLLGQTEETVESVKRSGRLTLSEGGFHTLKTVHTIQGVYSEIFIKSKSGMGVGRLIVGDFQKLLYSTDPVDVNAIDQFVKQGMSIPEAIKAVMRSRQEGHHHHHH | 0.613 | 56 | 0.610942 | In | 0.805 | In | -0.06 | S |
| >1579d1a6c1a8bb7bc5395f66107af069cdffc29b |  |  |  |  |  |  |  |  |
| MATIEDIKETALIPFQKHRQLSMHEAEVITLEIIGLLCDSECKDEKTLKYLGRFLTPDMYQDLVDERNLNKRCGYPLCGKSPERIRDPFSMNDTTKKFLLENNPYAYLSHYCSKFHFRCSQFYQVQLSDEALFARTGVHLFEDPEQDKHDIDFKVTLFEELLREKASEEDIKSLISGLKKLGLNPDSGTTEKDDTELEDDLSKWLAQIKIVENDNPSILGDFTRED | 0.696 | 96 | 0.858646 | S | 0.766 | S | -1.96 | S |
| >6f3694ad5a2e0c66e8074356c26aa9bd1fa4050c |  |  |  |  |  |  |  |  |
| GDMTLEKHAFKMQLNPGMEAEYRKRHDEIWPELVDLLHQSGASDYSIHLDRETNTLFGVLTRPKDHTMASLPDHPVMKKWWAHMADIMATNPDNSPVQSDLVTLFHMP | 0.37 | 90 | 0.631863 | S | 0.581 | In | -1.1 | S |
| >bacd10cce4c314b93779c3704a555f40d7514874 |  |  |  |  |  |  |  |  |
| PTGSNMWVIGKSKAQDAKAIMVNGPQFGWYAPAYTYGIGLHGAGYDVTGNTPFAYPGLVFGHNGVISWGSTAGFGDDVDIFAERLSAEKPGYYLHNGKWVKMLSREETITVKNGQAETFTVWRTVHGNILQTDQTTQTAYAKSRAWDGKEVASLLAWTHQMKAKNWQEWTQQAAKQALTINWYYADVNGNIGYVHTGAYPDRQSGHDPRLPVPGTGKWDWKGLLPFEMNPKVYNPQSGYIANWNNSPQKDYPASDLFAFLWGGADRVTEIDRLLEQKPRLTADQAWDVIRQTSRQDLNLRLFLPTLQAATSGLTQSDPRRQLVETLTRWDGINLLNDDGKTWQQPGSAILNVWLTSMLKRTVVAAVPMPFDKWYSASGYETTQDGPTGSLNISVGAKILYEAVQGDKSPIPQAVDLFAGKPQQEVVLAALEDTWETLSKRYGNNVSNWKTPAMALTFRANNFFGVPQAAAEETRHQAEYQNRGTENDMIVFSPTTSDRPVLAWDVVAPGQSGFIAPDGTVDKHYEDQLKMYENFGRKSLWLTKQDVEAHKESQEVLHVQR | 0.559 | 24 | 0.849496 | S | 0.582 | S | 0.83 | In |
| >77509c2b96d9ece3afaad89a03e200d276ef3abf |  |  |  |  |  |  |  |  |
| MSLSDSAKRGHQQYLNVCAGCHGVDGEGKPHIAVAMRGNTVLRQADSRNLVKVVLEGIREQQFTGFERMQPMPGFADKLDDQQVIDMVNYLRQAWGGLPGDLNVQQLAELKAEGHHHHHH | 0.802 | 81 | 0.571826 | S | 0.655 | S | 0.25 | In |
| >352cf9fe195dbe180398a36ae42dc4fa0803d38b |  |  |  |  |  |  |  |  |
| MSLKIGILSRNASLYSTKRLIEACKQRGHEVRVIDALRCYMNINSDKPEIHYKGEELAGFDAVIPRIGASVTFYGTAVLRQFEMMGVYPANESVAITRSRDKLRSMQLLSRRGIGMPITGFASKPDDVKDLLDMVGGAPVVIKLLEGTQGIGVVLAETRTAAESVIEAFMGLKANIMVQEYIKEAGGADIRCFVIGDKVIAAMKRQGADGEFRSNLHRGGTASLVKITPQERKTAIEAAKIMGLNVAGVDLLRSARGPLVMEVNSSPGLEGIEAATGKDIAGMIVEFIEKNAASKRTKTRGKGEGHHHHHH | 0.448 | 56 | 0.5 | S | 0.671 | In | 1.59 | In |
| >95e330c5a037a7557466dd4e2218954dd0d526e2 |  |  |  |  |  |  |  |  |
| MTISELEETLKEEARLFLSRARGLRGPHTEDLFARRVYIGPEDVHVENYPRRPLAVFNPGAVLEGEVVHLFPRLVFEYYSYASAIGHATLPLKDLLAGRIPKPLPVRILLYPTELFEAVRGCEDARAHRREEGYALFYTGVGKLGDARNTDSKEVFTAILSLAEFDEAFQLKRKAPIRIGLSGEETGLALYLPTKNATFLEGDHVLLRPSLSGLPDLCWRGRLDPKTLKAYDLRPVLAPEAFEYKVGWSTNALRLPDGTYLVAYHGILRHDLSYRHGFMRLSPEGRPLGLSHYLLAPQGLAECYGDRPLTLYGNGLLLHGEELVFVGGVGDYAIGVFTAPLEEVLKRVVPL | 0.616 | 56 | 0.969014 | S | 0.591 | S | 0.45 | In |
| >173f938c13fd0a6f753422f0668dd443c30ebd5f |  |  |  |  |  |  |  |  |
| KGLENPLPERPREKEEPVVRETGEVVDCHLSDMLQQLHSVNASKPSERGLVRQEEAEDPACIPIFWVSKWVDYSDKYGLGYQLCDNSVGVLFNDSTRLILYNDGDSLQYIERDGTESYLTVSSHPNSLMKKITLLKYFRNYMSEHLLKAGANITPREGDELARLPYLRTWFRTRSAIILHLSNGSVQINFFQDHTKLILCPLMAAVTYIDEKRDFRTYRLSLLEEYGCCKELASRLRYARTMVDKLLSSRSASNRLKAS | 0.493 | 44 | 0.68066 | In | 0.702 | In | 0.86 | In |
| >1b992069c0fc5fa2d6a60ed145e36ad153b33d9d |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMVAVHKVRYNVIMILGPEQTPNEKTTLDNCGLARRNLVLLKAVHTNCDSWNMNRYPLTLLKMANMAISWNTALKKKVNNVAWLLLKCNAPMELWYTCLSKNL | 0.591 | 47 | 0.913201 | S | 0.725 | In | 0.92 | In |
| >c2f6716dcd51401383027a6eba546c2c2eef91e2 |  |  |  |  |  |  |  |  |
| MQTVGSFSEFLDDMVGRYGPRPAIQYRPRYRTLRWSYLELGTHAAKLASLLDEHGVGSGDRVFLSAENSPHWVAAFFAIAARGAVIVPLNPRSPPEQLANLVRSAGPSLVLASPRRRWEGPPLPVVDIERSGRLEHHHHHH | 0.626 | 64 | 0.831971 | In | 0.61 | In | 2.3 | In |
| >2e09e1e3ccf130197bf77bdd331d2a743addcb3d |  |  |  |  |  |  |  |  |
| MSLKISCEIIGKVDSGDVSKISMENNNGVVISTLTTGATLQEFLVPTETGALKNIVLGFSDFEDYYKNNLCACQSIGRVAGRIGKASYTHNMVLYSLPKNEGENCLHGGPKGMQVQNWNYVTNLNDEYVETKFIRRLYSSVDGFPGDVTVSISYRLNNNNRLTILFEAFDVTESTIFNPTNHVYFNLSDKQDLSSHELQIYSDYRLELDSELIPTGQKINVDETNYDFRKTTDLLPRIEANNGFDDAFVVGGGTCDHVKEVAILHDKESGDGIEIFSNRNGLVIFTMDDIEDNIYFARDKGKMAKRREAIAMEAQTLPDAVNHKGFGDIILDKGHSVNYEIGFQYFNSSEGHHHHHH | 0.645 | 43 | 0.516179 | S | 0.744 | In | -0.19 | S |
| >f8f976339db374df45718c7bf9cb437c3317853e |  |  |  |  |  |  |  |  |
| GHMRVEIWSDIACPWCYVGKARFEKALAAFPHRDGVEVVHRSFELDPGRAKDDVQPVLTMLTAKYGMSQEQAQAGEDNLGAQAAAEGLAYRTRDRDHGSTFDLHRLLHLAKERGRHEALLDAFYRGNFADERSVFNDDERLVELAVGAGLDAEEVRAVLADPAAYADEVRADEREAAQLGATGVPFFVLDRAYGVSGAQPAEVFTQALTQAWGERTPLKLIDDGGAEACGPDGCAVPGH | 0.807 | 75 | 0.537285 | In | 0.72 | S | -1.86 | S |
| >a031a2593b43c2e53d921f52a59ca8e6cf0207b3 |  |  |  |  |  |  |  |  |
| MSLDDPSYHDLVPNTQELIINLDETPEGIIQIVQGNGNYKITSSNEDVATAIAEGNKIKVTALKAGSTDLSITDWAKMSTNVKVIVDQLSELVLSNSATTMYPGENKTVNVYTGNRGYKVTVDKESVVKATVDEEGHIQIESLAPGNATVTVTDRLNKSAEFSVKVIKKLVVDNSEEIAYLTVGEPLTIKILDGNGGYTCTNNGSATYLKCTIAENGTDVIIEGLKRYRFNKTVTIKDQEGEAISINIVYIDDLYLENPSYRYLIAGSSSYQSVSTSTVGSITHSEEFNMSEIVIKGTGTYASGFAVQFTGDLTKGNKGDAVLYKVTRNAVDKKVKYPIEDCRIDKVEDGWYWVSFLEPNCTIRSYMITKEGHHHHHH | 0.783 | 75 | 0.598944 | In | 0.54 | S | 0.06 | In |
| >f2ceb0d889d8fa5afdec7d8ccd3ca9c5b0c5af1d |  |  |  |  |  |  |  |  |
| MVERLLEIIERSLRKCPWLEKQSIETLLEALASEIEEVAEAVKKNDLANLEEEIGDLIYDALLVAAVAQRDYGIDLESAIQKVVEKISHRKPWLFWEEKISLEEAEKIWKERKKKI | 0.407 | 100 | 0.85948 | S | 0.701 | S | -2.78 | S |
| >02f2544e80ad04953a60e1c4bda75a5577df5004 |  |  |  |  |  |  |  |  |
| SHMERVFVWDLDETIIIFHSLLTGTFASRYGKDTTTSVRIGLMMEEMIFNLADTHLFFNDLEDCDQIHVDDVSSDDNGQDLSTYNFSADGFHSSAPGANLCLGSGVHGGVDWMRKLAFRYRRVKEMYNTYKNNVGGLIGTPKRETWLQLRAELEALTDLWLTHSLKALNLINSRPNCVNVLVTTTQLIPALAKVLLYGLGSVFPIENIYSATKTGKESCFERIMQRFGRKAVYVVIGDGVEEEQGAKKHNMPFWRISCHADLEALRHALELEYL | 0.519 | 21 | 0.703025 | In | 0.808 | In | -0.25 | S |
| >b0e0d61ddbfb258d5442121b320e5f204b3eec9f |  |  |  |  |  |  |  |  |
| MRRLKRDPLERAFLRGYQYGVHGKSRELCPFTLPSVRQAWINGWREGRGDNWDGMTGTAGIHRLNELHAVGLEHHHHHH | 0.544 | 22 | 0.558714 | S | 0.512 | S | 1.2 | In |
| >dcd72e7057881f8de2810fb8651e27a05c421eee |  |  |  |  |  |  |  |  |
| MAKAFDQAIAALNECSADEMDMNDVPPSPPPYRKPAPPQPQAPPTSAGPLGFIEELQQRQQRFQKMAEKAKTEGNERKMKMNMRLAGQFDEAIKEAKRGKLVNVGELPSLPDMGPLPPQTAPGQAAPKLHQRPPPQEVGPLAPSGVEGKSRNQGQLEFLLERQAQFKQAAIHVRVDDGIFDFYAKSRGDVEAAKKYLVEMKGFDKMIQAAQAGLPVSIKATPIPPQAQTASTTLQPRIQSAAASSSTGVENRGEKLSLLEKTLIEQVRSAETNQMRFTRLGDVGKVRLFEGWGKVAKQDLLLVREVAKRGLQVPKFHYEMRQIPSADLFPDLADDVIELTIVSCRDVPLPSGYETHHANLFIKYTFPAVVNDLPQTGKTKLIAGTASPDFGESIMLNIGSGKSRNSKLQRTFKRGGLKFEVFQKGGFMRSDKLLGTCEWKLEKLEHSAEMEESLPLKDGRKAVGGLLSAKVRIRQPIGDAKAQHIAQKWLILDN | 0.561 | 82 | 0.781105 | S | 0.637 | S | 1.78 | In |
| >b676e63c151fdbd4ce4f363aebe44ba0b0621d55 |  |  |  |  |  |  |  |  |
| MSLIELQSQVENKIISLKELKNKLEPLGYSIGGGWEYDHGYFDYKIDEDGGGYTFLRVPFQAVDGDLEQRRVQVRLGRPFLLNHKYEEGFDEEPNPFNGLVGMNTAGLFNQFTKPVDKDAQVDAKFFPVAQNLIQELEMALSSNEGHHHHHH | 0.823 | 91 | 0.922423 | S | 0.783 | S | -0.79 | S |
| >936f2ceccb8d47ac89e8408956c863dac030fc25 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMASMTGGEEMGRGSLLLARDYGRSQALAGLAGQSRIDASLKASLLRAVVERQRALPLVLADDAAIRGALLSPDRPSLDRINRKLEALATSAEAAVIYLIDRSGVAVAASNWQEPTSFVGNDYAFRDYFRLAVRDGMAEHFAMGTVSNRPGLYISRRVDGPGGPLGVIVAKLEFDGVEADWQASGKPAYVTDRRGIVLITSLPSWRFMTTKPIAEDRLAPIRESLQFGDAPLLPLPFRKIEARPDGSSTLDALLPGDSTAAFLRVETMVPSTNWRLEQLSPLNAPL | 0.327 | 30 | 0.644273 | In | 0.81 | In | 1.55 | In |
| >5b37d50777bb35d3445a60b4228943c0f4a2ea28 |  |  |  |  |  |  |  |  |
| GPGSMLSPEVTELNEADDMPRELRGKGKPMPCDKFVKVCRCPSTRKEVIICYRTLGDPSDPCLLLVIGLGGTMVHWPPEFLSELLKNGFFLVMLDNRDSGLSTHFDGYPTPFLPCMIFQSWSPLCGGAPPYTLYDMAHDAWCLLTVLGIRRAHLLGTSMGGMIVQCMAIQHPERVCSLTICYSHSSGPYVKPQACRVTLALLDKPASLSLKDVEDYVVRSDCLFRGDYLLDEKHVREVAVANFTRSPPYKQGLLRHVWAVQRATNREPALRRLRCFPVLVIHGRKDLMIPYENGLRLACVLWNAKLVLFPHMGHSIPRPLYVEIALEVGLQKLRIVEKVPR | 0.627 | 52 | 0.843587 | In | 0.844 | In | 1.58 | In |
| >002192fde8d108d3d818452da634915d97972b20 |  |  |  |  |  |  |  |  |
| AANEADYQAKLTAYQTELARVQKANADAKAAYEAAVAANNAANAALTAENTAIKKRNADAKADYEAKLAKYQADLAKYQKDLADYPVKLKAYEDEQTSIKAALAELEKHKNEDGNLTEPSAQNLVYDLEPNANLSLTTDGKFLKASAVDDAFSKSTSKAKYDQKILQLDDLDITNLEQSNDVASSMELYGNFGDKAGWSTTVSNNSQVKWGSVLLERGQSATATYTNLQNSYYNGKKISKIVYKYTVDPKSKFQGQKVWLGIFTDPTLGVFASAYTGQVEKNTSIFIKNEFTFYDEDGKPINFDNALLSVASLNREHNSIEMAKDYSGKFVKISGSSIGEKNGMIYATDTLNFKQGEGGSRWTMYKNSQAGSGWDSSDAPNSWYGAGAIKMSGPNNYVTVGATSATNVMPVSDMPVVPGKDNTDGKKPNIWYSLNGKIRAVNVPKVTKEKPTPPVKPTAPTKPTYETEKPLKPAPVAPNYEKEPTPPTRLEHHHHHH | 0.708 | 96 | 0.716526 | S | 0.6 | In | 1.44 | In |
| >2370d3f7d21d27c68dbfce489b45a1b7280067b5 |  |  |  |  |  |  |  |  |
| KVEQAVETEPEPELRQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVTQELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEELRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVR | 0.741 | 44 | 0.79884 | S | 0.686 | S | -1.12 | S |
| >26486874bc7736a9bf3867a75b98d5ef25acbb32 |  |  |  |  |  |  |  |  |
| MPFTIDSARGIFPNTLAADVVPATIARFSQLNAEDQLALIWFAYLEMGKTLTIAAPGAASMQLAENALKEIQAMGPLQQTQAMCDLANRADTPLCRTYASWSPNIKLGFWYRLGELMEQGFVAPIPAGYQLSANANAVLATIQGLESGQQITVLLNAVVDMGFTAGKDGKRIAEPVVPPQDTASRTKVSIEGVTNATVLNYMDNLNANDFDTLIELFTSDGALQPPFQRPIVGKENVLRFFREECQNLKLIPERGVTEPAEDGFTQIKVTGKVQTPWFGGNVGMNIAWRFLLNPEGKIFFVAIDLLASPKELLNFAVHHHHHH | 0.499 | 28 | 0.741229 | In | 0.567 | In | 0.16 | In |
| >ae20306a6bcaac5da5e7dadf2b50831057ea3c1f |  |  |  |  |  |  |  |  |
| MRIKGVVLSYRRSKENQHTNVMIIKPLDINSREEASKLIGRLVVWKSPSGKVLKGKIVRVHGTRGAVRARFEKGLPGQALGDYVEIILEHHHHHH | 0.765 | 89 | 0.985972 | In | 0.58 | S | -0.52 | S |
| >eb9779b09a532de29649eb77754ea51104abfd50 |  |  |  |  |  |  |  |  |
| GGLYMKLTKKQLKEYIEDYKKSDDILINLYIETYEFYCRLRDELKNSDLMIEHTNKAGASNIVKNPLSIELTKTVQTLNNLLKSMGLTAAQRKKIVQEEGGFGDY | 0.558 | 90 | 0.894037 | S | 0.604 | In | 0.62 | In |
| >d036c5c9abe4bf442ff7e7e9c42a2b6443a5a0fc |  |  |  |  |  |  |  |  |
| MAHHHHHHMTHRTGEREGVDAANGEAAAAPTTTAATAVSPKPREENRLPTPGGGQPVDGAVDALRQIQGNQKRETEARAFVSSLLAEKGESHVQNVLQAEIQKVKKKESELAAIKKKVTATNKEVDELQLDIWRANETKTEAERLCKVLQAATKRRAMLTEEARKEMEEHRIGVQQKVENSVKDIRVNCDERKETVMALMEENNRLREEVEMKKKQFDEAYEAYQAGWKVRESYLDELMRGFQQVTREVELLEGRLALTRRERQMTEEGMVLLRRQLDTYNTQLRDFFESYTVEDAEKMAAQQREQVEARIAQLEEEKREANELRLKFDKELAGWRTALAAAKRELQKAEKARMAAEKQCRVQQEKSRLKAKT | 0.595 | 60 | 0.598775 | In | 0.965 | In | -0.78 | S |
| >e94f631eec63ce2b1ae59b216112ee672e908420 |  |  |  |  |  |  |  |  |
| MEFLKNKALRFYSKALESFDKGEYDFTMFFVEQTVQLAIKYLIARRFGEIPKTHNLRILFEIAEQEEFYRNNLDVLREIELAYTASRYFDVEYSKEIAEKSLSVAKKVIDLL | 0.22 | 93 | 0.634568 | S | 0.644 | S | -1.33 | S |
| >06372f521611006a070eb2d8910529257d67449d |  |  |  |  |  |  |  |  |
| MFRGATLVNLDSKGRLSVPTRYREQLLENAAGQMVCTIDIYHPCLLLYPLPEWEIIEQKLSRLSSMNPVERRVQRLLLGHASECQMDGAGRLLIAPVLRQHAGLTKEVMLVGQFNKFELWDETTWHQQVKEDIDAEQLATGDLSERLQDLSL | 0.412 | 43 | 0.715578 | In | 0.594 | S | -0.83 | S |
| >4f06184dc21957742a045bb5bdc26369a2077293 |  |  |  |  |  |  |  |  |
| MASGKDLQVSTFGYISRCPVQVYEAIADPRQLERYFATGGVSGRLETGSTVYWDFVDFPGAFPVQVVSATQAEHIELRWGQANELRSVNFEFEPFRNFTRTKLTITEGSWPLTPAGAQEALGSQMGWTGMLSALKAWLEYGVNLRDGFYKQLEHHHHHH | 0.561 | 12 | 0.965547 | S | 0.713 | S | 0.15 | In |
| >793e3a1fa932991b4a5ac6e9c1cbee7d0f4a316d |  |  |  |  |  |  |  |  |
| SSELVTPDSSREKKRTLLQFLSDHFQDIQTLREYLLQKQISKVNRENRSFTNIQEKYGPYVAGAVFILKQGGAVKFQDKEEWIRPNNRSHFLAEIQKFQNVPVEAVDASGCAINYQGLSNLLPLKELRSLSLQRCPNLDDWCLSRLYLLAGSLQELSLAGCPRISERGLACLHHLQNLRRLDISDLPAVSHPGLTQILVEEMLPHCEVLGADWAQNLKLEPDKQPPDTSTPLSS | 0.735 | 63 | 0.868036 | S | 0.51 | S | 0.91 | In |
| >61cbfde73d6453eb71f67f376ad3ec86b5866595 |  |  |  |  |  |  |  |  |
| PGLSLGDTALQNLEQLLDGPEAQGSWAELAERLGLRSLVDTYRQTTSPSGSLLRSYELAGGDLAGLLEALSDMGLEEGVRLLRGPETRDKLPSTEV | 0.734 | 80 | 0.945078 | S | 0.764 | S | -0.72 | S |
| >5b484866e64a8251d6a55e89ac2bcec08fe2d239 |  |  |  |  |  |  |  |  |
| GSHMEKVPGEMEIERRERSEELSEAERKAVQAMWARLYANCEDVGVAILVRFFVNFPSAKQYFSQFKHMEDPLEMERSPQLRKHACRVMGALNTVVENLHDPDKVSSVLALVGKAHALKHKVEPVYFKILSGVILEVVAEEFASDFPPETQRAWAKLRGLIYSHVTAAYKEVGWVQQVPNATTPPATLPSSGP | 0.759 | 90 | 0.94292 | S | 0.572 | S | 0.29 | In |
| >d6316b4380c0b58c704ff648e8476da7f13f48b8 |  |  |  |  |  |  |  |  |
| VAMVNTTTRLSDDALAFLSERHLAMLTTLRADNSPHVVAVGFTFDPKTHIARVITTGGSQKAVNADRSGLAVLSQVDGARWLSLEGRAAVNSDIDAVRDAELRYAQRYRTPRPNPRRVVIEVQIERVLGSADLLDRA | 0.359 | 61 | 0.722664 | S | 0.553 | In | 0.76 | In |
| >266298745d852a1586adbbe637ec894b223be287 |  |  |  |  |  |  |  |  |
| MVSWGRDFMMFYLNLLSIFESLRDDRSALRHYKKKLHEYQEHEAEVLIDIGVIYLDRGELERAVRNFEEALETYRKLKFPEGVAYASELLGDSLMALREFDRAMEHYSEALSIYSDLNPPLAEELREKIYEAGKIREALTTQEPPEEESCEEPSENPGLGSETVAVFRFSDRLVELLEGFEDYAVCWENRDIEVLEDNLESAGVIRDRQTEGLLNILIGRYHLEEGEIYEALKFIKRATRIFRDAGDSRGAAVSLVIMGVILFIMDERENLYKVFKEALEIFRSLEMGEAESVTMKIINTLSKM | 0.535 | 88 | 0.526152 | S | 0.502 | S | -2.49 | S |
| >35eddb1416121496bc7a0ec3c2b8435e93bef684 |  |  |  |  |  |  |  |  |
| MRGSHHHHHHGMASMIVVFVGTAGSGKTTLTGEFGRYLEDNYKVAYVNLDTGVKELPYEPSIDVREFVTVEEIMREGYGPNGAIVESYDRLMEKFNEYLNKILRLEKENDYVLIDTPGQMETFLFHEFGVRLMENLPYPLVVYISDPEILKKPNDYCFVRFFALLIDLRLGATTIPALNKVDLLSEEEKERHRKYFEDIDYLTARLKLDPSMQGLMAYKMCSMMTEVLPPVRVLYLSAKTREGFEDLETLAYEHYCTCGDLT | 0.544 | 66 | 0.574692 | S | 0.646 | In | -1.35 | S |
| >9f6ecb7a2366813c5c246f008e9a5773fad8bbcb |  |  |  |  |  |  |  |  |
| MQHPYVGIWVTADGRIRQELLPNGRYDEARGNRKSAYQGRYEVRGAHINYWDDTGFTADGDFVSANELHHGGMTFYREK | 0.433 | 5 | 0.632318 | S | 0.566 | In | 0.54 | In |
| >3beb99ccdb949e68b5050a99081e0c007f1e7f20 |  |  |  |  |  |  |  |  |
| MAHHHHHHMCAPTPTITQNTHRGAYTGALLFLVPSKAKMSSKSIDVFNVSQNRLRAASFQDEEERQNAEYAERHNLQALFSEFAAQLREKDPKTEHEAERVLLDLLSHRKAERDRAALRLHFVTSFEVNLDNGRKILKLTSGSETSTLHIVQKTRSVAVDETFTVSLEEAEELTEMFYELGRFVVESGKGELNGFISIDDRDVFLLAGGKDCSDIGDELFNMTFLMKASSKSRGTE | 0.412 | 70 | 0.863293 | In | 0.527 | In | -0.66 | S |
| >8834340e5577a78c8a44aeff986c13ef79deb49f |  |  |  |  |  |  |  |  |
| SYKVNYMSETPANKSQGGSNQKGGNIILPLALIDKCIGNRIYVVMKGDKEFSGVLRGFDEYVNMVLDDVQEYGFKADEEDISGGNKKLKRVMVNRLETILLSGNNVAMLVPGGDPDSFNFS | 0.687 | 96 | 0.752475 | S | 0.571 | S | 1.76 | In |
| >3b8cc6a9751fe5e2d9a2c1f25dc7994f65ee7013 |  |  |  |  |  |  |  |  |
| MAHHHHHHMQRIDSTRHWLQNMKEEVKKDREREPQHVQDVARERATRHSARKEYLDSTSRAGSASRHRTLSTGSRRHTRGETRAAAQVTSRQYAGEAIPPTASSERSHRAPEQVSPPMPEKRHCSSQRHLGRPTAPAAAPRAPTPDPDLFREPVDAVSSSREEGIECPILSFMSFLDGNTFDSTASLCQYNVNLADSLSDEHLEILRAAVFNHNEEAFAELLYGDDVEAEIDGAAAALGHSDDPTVQHELVVLQQEAVRRFNDKCAKALKALLSAEGGLAEAVQVAASELEHQAYQADGSLVAVP | 0.444 | 69 | 0.566311 | In | 0.959 | In | -0.37 | S |
| >5a2afc94e35d8db60443f6b43e23219fe75de46f |  |  |  |  |  |  |  |  |
| MNHIARQFAILLGEGLKPLGIAPAQFPILLELWQKDGLSQQELVERADLKQATIANTLARMERDGLITREPNPDDARSRLIMLTEQARALQQQSTEIAQAINQTALSDLSANEQKLFLEMAAKIVARQQEMITGEK | 0.238 | 38 | 0.884791 | In | 0.738 | S | -0.87 | S |
| >3bab31445f673ea682782457dd05c081eb16709b |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMPFREEVFEELITAAPKEHQKFKPEKKPKEKSTKKVQDFGDPDTFGDAKVAATEDPGDVEEEEFLSNSTRRSKKLKAVEYARQIKDHLKANRLNEAIAVLEQRMLKEDRAKPDKYIYNLLISGCAKAGYTRKAFFLYTKMRQRGLQVTGGTYTSLFNACANAPSVSDGLAKAQILRENMLEKGYEPNVKNYNAMIKAYGRCGDVDTAYMLADEMMERQLELNADTFNFLLQACASNSEHGFRHALLTWHNMLQRGISPDYYSFNAMLRCARDCGFGDLDSMREVIDKIAPSAARKKPVLQLEKGQQDDLPSVEANTTTLPAQIEVATTASELELPNLLLPQPHLGSLVALEEVTRPHERFLLLGGLTGFLEHMKQHNITPDIETFTAMLEVIPPTNAAEKQLLTFVRKIGLKADIDFFNILIKKRSMRFDYESAKEVLLMIRTAGLRPDIVTYGVLALGCRTQEEARELLEQMHVAGIKMNMPILGAMLRQGCANKSFSYVNEIIQLSLEEGLKPNEAFLRHLHNFHRGCARAIDARHPSTKTAAFKKGHSKFCDKYRLYYEEQGLSGLKLEDAIAKVKERPYDQFKLPPVNGMEPLKHEQLKHKTKQRKYIKKIKIHELKDDPPKESLKRIE | 0.426 | 86 | 0.643383 | S | 0.567 | In | 0.67 | In |
| >dd65a906f5f9281a1186b20aaf3ba80e567c60c1 |  |  |  |  |  |  |  |  |
| MAGDPMEINVDQINLMTKKGLRGDLKNFESVLDFLEKYGNATIVKYGMYSLVFQIAMNKFIDISKECEECGGKCCQIGYPVPVYGFDYEELRNKLSMEDLKKLEKVDSNLFLLRRPCKFQKGWYCSIHKFKPYACLSYPFATEDEQRDAINSYDGKGIPDFKVPEYCKAGMRVKHIMNQIITDLTNKLGRPPTPRELYNELKSRYYKNEETTSKLEHHHHHH | 0.789 | 90 | 0.788151 | In | 0.585 | In | 0.94 | In |
| >b3c2cf6f922d8b22bf550e82f3c934c12496c665 |  |  |  |  |  |  |  |  |
| MAHPCATDPELWFGYPDDDGSDGAAKARAYERSATQARIQCLRRCPLLQQRRCAQHAVEHRVEYGVWAGIKLPGGQYRKREQLAAAHDVLRRIAGGEINSRQLPDNAALLARNEGLEVTPVPGVVVHLPIAQVGPQPAA | 0.335 | 55 | 0.858672 | S | 0.778 | S | 1.05 | In |
| >57f504075829e9841f08cc77b2ebe3c58e0426f3 |  |  |  |  |  |  |  |  |
| MKLSRLVPGVPARIKRLEVSGELHEKLVGMGFVPGEEIEIVQVAPLGDPIVCKIGNRNITLRKREADLIEVEVVGGELPLILADDGTYEITKLNGGRRFLFRMKNLGIESGKKIQVSGRRYYIEGREIDLGYGEATKIWVRRVSDAGEESHPQKLEHHHHHH | 0.633 | 97 | 0.937975 | S | 0.805 | S | 1.01 | In |
| >8d4550014b127602da15d749969cf81cd340a749 |  |  |  |  |  |  |  |  |
| GPGSMYRSRPEPVQGHLFTYYKDPYCKIPVFMMNMDARRCVLWVGGQTESLLSFDYFTNLAEELQGDWAFVQVEVPSGKIGSGPQDHAHDAEDVDDLIGILLRDHCMNEVALFATSTGTQLVFELLENSAHKSSITRVILHGVVCDPENPLFTPEGCAARKEHVEKLMAEGRGEDSLAMLKHYDIPITPARLAGGGFPTLQEAVWNPCIRKEFDVLRRSVGVIKVPLLLMLAHNVQYKPSDEEVGTVLEGVRDHTGCNRVTVSYFNDTCDELRRVLKAAESEHVAAILQFLADEDEFRTETEKNNRIKAAEDEKKRKSVLQVSSFAQAASSVKAS | 0.727 | 82 | 0.553815 | In | 0.939 | In | -0.61 | S |
| >6e742d881a3e2d3598d65b1abb12155784cd0d79 |  |  |  |  |  |  |  |  |
| SLINTKIKPFKNQAFKNGEFIEVTEKDTEGRWSVFFFYPADFTFVCPTELGDVADHYEELQKLGVDVYSVSTDTHFIHKAWHSSSETIAKIKYAMIGDPTGALTRNFDNMREDEGLADRATFVVDPQGIIQAIEVTAEGIGRDASDLLRKIKAAQYVAAHPGEVCPAKWKEGEATLAPSLDLVGKI | 0.711 | 90 | 0.657121 | S | 0.832 | S | -1.12 | S |
| >2135b4fdc712f05f577dfac997d3ac5dd6a9294e |  |  |  |  |  |  |  |  |
| MSLKDQVQLVKRRDSIRYEIVSIQDRLSFEKGFFAVIRACQLLSQKNDGIILVGVAGPSGAGKTVFTEKILNFLPSVAVISMDNYNDSSRIVDGNFDDPRLTDYDTLLKNLEDLKEGKQVEVPIYDFKSSSRVGYRTLDVPPSRIVIIEGIYALSEKLRPMLDLRVSVTGGVHFDLVKRVLRDIQRAGQQPEEIIHQISETVYPMYKAFIEPDLQTAQIKIINKEGHHHHHH | 0.712 | 75 | 0.537042 | S | 0.599 | S | 0.47 | In |
| >894932f9c0129e4fc40e3abdfaab5fe05295b45e |  |  |  |  |  |  |  |  |
| GMPFKQTRHLLTISALCPKELAYLIDRALDMKKNPAKYTARAANKTLLAFFAKPSLRTRVSLETAMTRLGGHAIYYELGANSNVGGKETVQDTAEVFSRMVDICTARLATKEMMREMAQHASVPCINALDDFGHPLQMVCDFMTIKEKFTAAGEFSNGFKGIKFAYCGDSMNNVTYDLMRGCALLGMECHVCCPDHKDFKPIKEVIDECEEIIAKHGTGGSIKIFHDCKKGCEGVDVVYTDSWMSYHITKEQKEARLKVLTPFQVDDAVMAVTSKRSIFMNCLPATRGEEQTASVIDGPKSVCYDEAGNRLHSAMAVLDFFLHDCKME | 0.675 | 89 | 0.690432 | In | 0.887 | In | -0.05 | S |
| >c6f705d912367c980afeb360dd4ab2865c310dc5 |  |  |  |  |  |  |  |  |
| MDPDQYSIEADKKFKYSVKLSDYPTLQDAASAAVDGLLIDRDYNFYGGETVDFGGKVLTIECKAKFIGDGNLIFTKLGKGSRIAGVFMESTTTPWVIKPWTDDNQWLTDAAAVVATLKQSKTDGYQPTVSDYVKFPGIETLLPPNAKGQNITSTLEIRECIGVEVHRASGLMAGFLFRGCHFCKMVDANNPSGGKDGIITFENLSGDWGKGNYVIGGRTSYGSVSSAQFLRNNGGFERDGGVIGFTSYRAGESGVKTWQGTVGSTTSRNYNLQFRDSVVIYPVWDGFDLGADTDMNPELDRPGDYPITQYPLHQLPLNHLIDNLLVRGALGVGFGMDGKGMYVSNITVEDCAGSGAYLLTHESVFTNIAIIDTNTKDFQANQIYISGACRVNGLRLIGIRSTDGQSLTIDAPNSTVSGITGMVDPSRINVANLAEEGLGNIRANSFGYDSAAIKLRIHKLSKTLDSGALYSHINGGAGSGSAYTQLTAISGSTPDAVSLKVNHKDCRGAEIPFVPDIASDDFIKDSSCFLPYWENNSTSLKALVKKPNGELVRLTLATL | 0.551 | 42 | 0.772509 | In | 0.587 | S | 1.27 | In |
| >050224393f00bb2d8e67d4d9d75db71c16a798f9 |  |  |  |  |  |  |  |  |
| MAKHAILVIDMLNDFVGEKAPLRCPGGETIIPDLQKIFEWVRGREGDDIHLVHIQEAHRKNDADFRVRPLHAVKGTWGSDFIPELYPQEDEYIVQKRRHSGFAHTDLDLYLKEEGIDTVVLTGVWTNVCVRSTATDALANAYKVITLSDGTASKTEEMHEYGLNDLSIFTKVMTVDQYIQAWENDEDPWVGGGDAQNKVK | 0.674 | 70 | 0.67081 | In | 0.759 | S | -1.82 | S |
| >81dbd4e91b28a1b09e6306b4fc9ab05db9e39ece |  |  |  |  |  |  |  |  |
| KEHYEFKNVAIGGGGYITGIVAHPKTKDLLYARTDIGGAYRWDAGTSKWIPLNDFIEAQDMNIMGTESIALDPNNPDRLYLAQGRYVGDEWAAFYVSEDRGQSFTIYESPFPMGANDMGRNNGERLAVNPFNSNEVWMGTRTEGIWKSSDRAKTWTNVTSIPDAFTNGIGYTSVIFDPERNGTIYASATAPQGMYVTHDGGVSWEPVAGQPSSWLNRTTGAFPDKKPASIAPQPMKVALTPNFLYVTYADYPGPWGVTFGEVWRQNRTSGAWDDITPRVGNSSPAPYNNQTFPAGGFCGLSVDATNPNRLVVITLDRDPGPALDSIYLSTDAGATWKDVTQLSSPSNLEGNWGHPTNAARYKDGTPVPWLDFNNGPQWGGYGAPHGTPGLTKFGWWMSAVLIDPFNPEHLMYGTGATIWATDTLSRVEKDWAPSWYLQIDGIEENAILSLRSPKSGAALLSGIGDISGMKHDDLTKPQKMFGAPQFSNLDSIDAAGNFPNVVVRAGSSGHEYDSACARGAYATDGGDAWTIFPTCPPGMNASHYQGSTIAVDASGSQIVWSTKLDEQASGPWYSHDYGKTWSVPAGDLKAQTANVLSDKVQDGTFYATDGGKFFVSTDGGKSYAAKGAGLVTGTSLMPAVNPWVAGDVWVPVPEGGLFHSTDFGASFTRVGTANATLVSVGAPKSKSDGKKASAPSAVFIWGTDKPGSDIGLYRSDDNGSTWTRVNDQEHNYSGPTMIEADPKVYGRVYLGTNGRGIVYADLTNKKSNEEKSTAKCANGQKGTHCYVKK | 0.577 | 53 | 0.54999 | S | 0.658 | S | 1.66 | In |
| >90e3ec7aaa844bf7a46517a3ec31126c3439e240 |  |  |  |  |  |  |  |  |
| GSHMTELDTIANPSDPAVQRIIDVTKPSRSNIKTTLIEDVEPLMHSIAAGVEFIEVYGSDSSPFPSELLDLCGRQNIPVRLIDSSIVNQLFKGERKAKTFGIARVPRPARFGDIASRRGDVVVLDGVKIVGNIGAIVRTSLALGASGIILVDSDITSIADRRLQRASRGYVFSLPVVLSGREEAIAFIRDSGMQLMTLKADGDISVKELGDNPDRLALLFGSEKGGPSDLFEEASSASVSIPMMSQTESLNVSVSLGIALHERIDRNLAANR | 0.482 | 72 | 0.714361 | In | 0.561 | In | 1.11 | In |
| >aa9a41492168825908d9f2599a423ce878e15dae |  |  |  |  |  |  |  |  |
| MAHHHHHHMGTLEAQTQGPGSMPLPADPSPTLSAYAHPERLVTADWLSAHMGAPGLAIVESDEDVLLYDVGHIPGAVKIDWHTDLNDPRVRDYINGEQFAELMDRKGIARDDTVVIYGDKSNWWAAYALWVFTLFGHADVRLLNGGRDLWLAERRETTLDVPTKTCTGYPVVQRNDAPIRAFRDDVLAILGAQPLIDVRSPEEYTGKRTHMPDYPEEGALRAGHIPTAVHIPWGKAADESGRFRSREELERLYDFINPDDQTVVYCRIGERSSHTWFVLTHLLGKADVRNYDGSWTEWGNAVRVPIVAGEEPGVVPVV | 0.443 | 44 | 0.648437 | In | 0.534 | In | -0.88 | S |
| >b74519cf7402a097566e9d68582606ddb2f9a1b2 |  |  |  |  |  |  |  |  |
| MAYQIDQKMIHDQEPMAEIMPNVITAMSSLLQRVSETNDDLSRPFREHKRISAFNAVTKPSISIRSYMERIFKYADCSDSCYIVAYIYLDRFIQKQPLLPIDSSNVHRLIITSVLVSAKFMDDLCYNNAFYAKVGGITTEEMNLLELDFLFGIGFQLNVTISTYNDYCSSLQREMVMRTMYSPLLEPAFLVRSFHKNLLKNLYDEDHRNSQVTSAV | 0.203 | 20 | 0.741399 | In | 0.78 | In | 0.07 | In |
| >7102cba55640e1c1403f821b64b74614dddfe167 |  |  |  |  |  |  |  |  |
| MKIENRRKGSCTTVLVGRKASIDGSTMIARNDDGHEALDPQRFIVIQPEEQPRHYKAVLSDLELDLPENPLRYTSTPNAVLKEGIWPAAGINSANVAMSATETITTNPRILGLDPYVENGMGEEDLVTLVLPYIKSAREGVERLGQLLKTYGTYEPNGIAFADKEEVWWLETIGGHHWAAVRIPDDSYVVAPNRMNIDEFKFDNDDYMCSSDLKQLIDANHLNPDFEGYESHYNLRHIFGSSSIKDSVYNNPRTWYGQNFLGNPSEDPQNQELPFICEASRKITVEDVKFVLSSHFENTKYDPYGSTNSPEERKLFRPIGINRNHSVHILQVRNNVPDELAGVQWLAFGANTFNHVVPFYTAINDTPASYRDAKGEYDPTNMYWLSATTAVLGDSNYDLFVDLRNTFELNTMAKFHEIQNETDKNFETAEDKIAYLTQANEKLAEAAFKAQTELLGRMVVLGSANMKLRFDFNDLEHHHHHH | 0.589 | 42 | 0.75697 | In | 0.518 | S | -0.45 | S |
| >2c990361dd57d8a6a6e5b1c7706aaf6bd019d79e |  |  |  |  |  |  |  |  |
| MRTSKKEMILRTAIDYIGEYSLETLSYDSLAEATGLSKSGLIYHFPSRHALLLGMHELLADDWDKELRDITRDPEDPLERLRAVVVTLAENVSRPELLLLIDAPSHPDFLNAWRTVNHQWIPDTDDLENDAHKRAVYLVQLAADGLFVHDYIHDDVLSKSKRQAMLETILELIPSQTLEHHHHHH | 0.509 | 79 | 0.586674 | S | 0.704 | S | -2.42 | S |
| >d8e23bcb5ed91a71d90c962cbe0aa6a9c6d3ae0d |  |  |  |  |  |  |  |  |
| MPLRVELKPFERIVIGQSVITNSDTRTTFLIDGDAPILREKDILTAETANTPVKRIYLCVQMMYLQNDIPAYQDLYLGFIKELIEAVPSFRETIEATSNHILSGNLYKALRELRPLIKREEELLSR | 0.372 | 74 | 0.593868 | S | 0.557 | S | -0.37 | S |
| >5dfad7d39be1f08a72b39377d4228ece36a029ae |  |  |  |  |  |  |  |  |
| MAHHHHHHMNIEKVNAVKNYVQNFDHKNADESKKNYELFRIICISKFVQLLKSIDIKMVVFDFDLTIIGAHSGGYIDKTNDVDNIGTSVSEHFKIFSKALYANDIKITVATFSDEEAIRYNKSRSSNLIAGTELVQFCIKKSKCETKIEKVYAYYPYYYKEPKKYRALGLDKPMTNDKSYHLERIRREFFVNIDEIIFIDDDMNNCISARKEGYITFNVTGKDGFNFKNIQIL | 0.204 | 81 | 0.758519 | In | 0.679 | In | 0.7 | In |
| >11f6bac043dffc732f3fe36a781c7bfd6e1d84ea |  |  |  |  |  |  |  |  |
| MSESIVTKIISIVQERQNMDDGAPVKTRDIADAAGLSIYQVRLYLEQLHDVGVLEKVNAGKGVPGLWRLLLEHHHHHH | 0.567 | 76 | 0.904015 | S | 0.54 | S | -0.59 | S |
| >408002931304a62cbc3920b5899d9a0192ea2a1f |  |  |  |  |  |  |  |  |
| RSKKGDKNGKGLRHFSMKVCEKVQRKGTTSYNEVADELVSEFTNSNNHLAADSAYDQKNIRRRVYDALNVLMAMNIISKEKKEIKWIGLPTNSAQ | 0.57 | 85 | 0.683571 | S | 0.665 | In | 0.73 | In |
| >dc0e63ded58c7251696902938c41e227987a61e6 |  |  |  |  |  |  |  |  |
| MASKYGINDIVEMKKQHACGTNRFKIIRMGADIRIKCENCQRSIMIPRQTFDKKLKKIIVSQDDTQRLEHHHHHH | 0.343 | 93 | 0.843843 | In | 0.698 | In | -1.52 | S |
| >5de5e3f2827898b3d97f8f22a4c0601281ebd564 |  |  |  |  |  |  |  |  |
| MNFLRGVMGGQSAGPQHTEAETIQKLCDRVASSTLLDDRRNAVRALKSLSKKYRLEVGIQAMEHLIHVLQTDRSDSEIIGYALDTLYNIISNDEEEEVEENSTRQSEDLGSQFTEIFIKQQENVTLLLSLLEEFDFHVRWPGVKLLTSLLKQLGPQVQQIILVSPMGVSRLMDLLADSREVIRNDGVLLLQALTRSNGAIQKIVAFENAFERLLDIITEEGNSDGGIVVEDCLILLQNLLKNNNSNQNFFKEGSYIQRMKPWFEVGDENSGWSAQKVTNLHLMLQLVRVLVSPNNPPGATSSCQKAMFQCGLLQQLCTILMATGVPADILTETINTVSEVIRGCQVNQDYFASVNAPSNPPRPAIVVLLMSMVNERQPFVLRCAVLYCFQCFLYKNQKGQGEIVSTLLPSTIDATGNTVSAGQLLCGGLFSTDSLSNWCAAVALAHALQENATQKEQLLRVQLATSIGNPPVSLLQQCTNILSQGSKIQTRVGLLMLLCTWLSNCPIAVTHFLHNSANVPFLTGQIAENLGEEEQLVQGLCALLLGISIYFNDNSLETYMKEKLKQLIEKRIGKENFIEKLGFISKHELYSRASQKPQPNFPSPEYMIFDHEFTKLVKELEGVITKAIYKSSEEDKKEEEVKKTLEQHDSI | 0.511 | 55 | 0.750406 | S | 0.647 | S | 0.14 | In |
| >5bc10327688fce62e08d6e2b7cd5e0b0ee4a0e21 |  |  |  |  |  |  |  |  |
| MGLFDEVVGAFLKGDAGKYQAILSWVEEQGGIQVLLEKLQSGGLGAILSTWLSNQQGNQSVSGEQLESALGTNAVSDLGQKLGVDTSTASSLLAEQLPKIIDALSPQGEVSPQANNDLLSAGMELLKGKLFR | 0.417 | 98 | 0.793476 | In | 0.855 | S | 0.39 | In |
| >b88d21572889ba0b8289c2a20c2885705225f180 |  |  |  |  |  |  |  |  |
| KIVLDPSGSMNIYLVLDGSDSIGASNFTGAKKCLVNLIEKVASYGVKPRYGLVTYATYPKIWVKVSEADSSNADWVTKQLNEINYEDHKLKSGTNTKKALQAVYSMMSWPDDVPPEGWNRTRHVIILMTDGLHNMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNINALASKKDNEQHVFKVKDMENLEDVFYQMIDESQSLSLCGMVWEHRKGTDYHKQPWQAKISVIRPSKGHESCMGAVVSEYFVLTAAHCFTVDDKEHSIKVSVGGEKRDLEIEVVLFHPNYNINGKKEAGIPEFYDYDVALIKLKNKLKYGQTIRPICLPCTEGTTRALRLPPTTTCQQQKEELLPAQDIKALFVSEEEKKLTRKEVYIKNGDKKGSCERDAQYAPGYDKVKDISEVVTPRFLCTGGVSPYADPNTCRGDSGGPLIVHKRSRFIQVGVISWGVVDVCKNQKRQKQVPAHARDFHINLFQVLPWLKEKLQDEDLGFLAA | 0.669 | 90 | 0.5 | S | 0.535 | In | 0.81 | In |
| >816c63e5d28ee7dcf8de4decc43ee52896c833e9 |  |  |  |  |  |  |  |  |
| AQYYQLDEKFNQQTYEQYGKGLALNDLYIRRGASGSLVFNQDQQISGIFFAVASHSDPKPGEKTLVQLLRLPVDES | 0.771 | 53 | 0.559028 | In | 0.581 | S | 0.28 | In |
| >5b5b990d2fe5b7d4410442b455fcf10c6c1e1114 |  |  |  |  |  |  |  |  |
| SMGLMEPPGPSTPIVQRPRILLVIDDAHTDWSKYFHGKKVNGEIEIRVEQAEFSELNLAAYVTGGCMVDMQVVRNGTKVVSRSFKPDFILVRQHAYSMALGEDYRSLVIGLQYGGLPAVNSLYSVYNFCSKPWVFSQLIKIFHSLGPEKFPLVEQTFFPNHKPMVTAPHFPVVVKLGHAHAGMGKIKVENQLDFQDITSVVAMAKTYATTEAFIDSKYDIRIQKIGSNYKAYMRTSISGNWKANTGSAMLEQVAMTERYRLWVDSCSEMFGGLDICAVKAVHSKDGRDYIIEVMDSSMPLIGEHVEEDRQLMADLVVSKMSQLPMPGGTAPSPLRPWAPQIKSA | 0.65 | 53 | 0.601378 | In | 0.817 | In | 1.13 | In |
| >a3d5588c69f62e6c12569bd5e808f0275713e093 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMSWRYSILTVDGSFKIFIPWEIFLTWNFLSAAWLNSTESNTYIHYSTCWGTSDYTLNISVIEATTEKLVDTRLLTTLENATAWINSNSIDEDEDDMPHATNVADRLDGLSLSKRVYSICHYEF | 0.239 | 8 | 0.622431 | S | 0.616 | In | -0.91 | S |
| >e27158256605db35a0693b0ab6b1cf5aa749807f |  |  |  |  |  |  |  |  |
| SCPPVSMRYEEEGMSYLYASWMYQLQHGDQLSICFTCFKAAFLDFKDLLESEDWEEDNWDPELMEHTEAESEQEGSSGMELSWGQSPGQPVQGGSEAWGPGTLAAAPEGLEDAGLDPHFVPTELWPQEAVPLGLGLEDADWTQGLPWRFEELLTCSHWPSFFPS | 0.866 | 97 | 0.713205 | S | 0.911 | S | -3.41 | S |
| >5fd73b9374a90236495d15deea276e33800f092a |  |  |  |  |  |  |  |  |
| SQTIYRLKEPQIDREEDVRTIIRTFLFQFSEKAYGGPSFNRPACCFAPHIYGAGKTFLGQNFLAYLNIFAERECSNAQTFQQLHSSNDNPQPSALKVPWKHFAEQTLSVILELRESFSDAPFPRFRKALMYNIILNS | 0.615 | 20 | 0.678069 | S | 0.765 | In | 1.55 | In |
| >9ad91e75774217faa0aa950ea6ea6422a50083a4 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMDSHDLQRFLSDFRDLMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQFGQQLLAHGHYASPEIKQKLDILDQERADLEKAWVQRRMMLDQCLELQLFHRDCEQAENWMAAREAFLNTEDKGDSLDSVEALIKKHEDFDKAINVQEEKIAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQMIEKR | 0.584 | 95 | 0.674904 | In | 0.839 | S | -2.18 | S |
| >9f0a593e13b7a0af4deab972781eda7ed0ae3e4d |  |  |  |  |  |  |  |  |
| MSPGSRRASPQSAREVVELDRDEAMRLLASVDHGRVVFTRAALPAIRPVNHLVVDGRVIGRTRLTAKVSVAVRSSADAGVVVAYEADDLDPRRRTGWSVVVTGLATEVSDPEQVARYQRLLHPWVNMAMDTVVAIEPEIVTGIRIVADSRTP | 0.456 | 96 | 0.705119 | S | 0.687 | In | 0.64 | In |
| >ee0f1338d3d5b4ac871c8d4647f09d4a3220022c |  |  |  |  |  |  |  |  |
| MKFTVEREHLLKPLQQVSGPLGGRPTLPILGNLLLQVADGTLSLTGTDLEMEMVARVALVQPHEPGATTVPARKFFDICRGLPEGAEIAVQLEGERMLVRSGRSRFSLSTLPAADFPNLDDWQSEVEFTLPQATMKRLIEATQFSMAAAAAAYYLNGMLFETEGEELRTVATDGHRLAVCSMPIGQSLPSHSVIVPRKGVIELMRMLDGGDNPLRVQIGSNNIRAHVGDFIFTSKLVDGRFPDYRRVLPKNPDKHLEAGCDLLKQAFARAAILSNEKFRGVRLYVSENQLKITANNPEQEEAEEILDVTYSGAEMEIGFNVSYVLDVLNALKCENVRMMLTDSVSSVQIEDAASQSAAYVVMPMRL | 0.541 | 42 | 0.655738 | In | 0.54 | In | -0.03 | S |
| >bdca6bfb88ac444e26f968ce5950cbf708693653 |  |  |  |  |  |  |  |  |
| MCAFNGAALTALGISHSALLAHSPQGCEYLVNNAFASQECDYMETMTLCTKLCVDEIVHGGEDILARTIREVKDLPISALFVLSACGPEIVGDDIVGVCEALQPEVKFRLVPIESAGFRGSQYDGIDIAMDTILKKLVKDDVEKIPLEHHHHHH | 0.782 | 97 | 0.955046 | S | 0.731 | S | -2.09 | S |
| >40560ba8a979afd658f04fa4f1ba21278c33ec02 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMFRSRPNALSQRSVIASSSELASLAGRDILKRGGNIFDAALAVSAMLCVTQNNLCGLGGDLFALIRDENGQIMDLNGSGQASRAVSIDYYESMGLTKIPERGPYAAITVPGIAGSWDEIFRKFATMDIADILEPAIRTASAGFPITQNYSDSIARSAPVIGQYRGWSSIFMPNGSVPVAGEILKQPDLAESFRLMSEEGFRSFYDGSLADIIIAGLEGTGSPLSDRDLRVYRPLIGKPVFTDLDEFRIYETSPNSQGITVIEWIRGMESHGYDSRTMWEAKIEDIFETMEEAYDKRRKITDPSYMNIAQHDSANGKKDGLPKRDHNDIGDTTYFSISDSEGRSVSIIQSNYMGFGSGIVPKGTGFVLQNRGSYFTLQRDHPNALMPGKRTFHTLAACMVEKEHDLYASLGSMGGDIQPQVQMQILMEILKDNTDPQAILDKPRWTEPYTIYEAPGAVYVESEELYRNVSKQISGRKVVLRDVSQEFGTAQITTLIRGDVVVGAADPRGDGIAIPYS | 0.355 | 27 | 0.524068 | In | 0.583 | S | 0.81 | In |
| >00c54f86d01752faaf9e519cdbd496976650a8f4 |  |  |  |  |  |  |  |  |
| ASAWPEEKNYHQPAILNSSALRQIAEGTSISEMWQNDLQPLLIERYPGSPGSYAARQHIMQRIQRLQADWVLEIDTFLSQTPYGYRSFSNIISTLNPTAKRHLVLACHYDSKYFSHWNNRVFVGATDSAVPCAMMLELARALDKKLLSLKTVSDSKPDLSLQLIFFDGQEAFLHWSPQDSLYGSRHLAAKMASTPHPPGARGTSQLHGMDLLVLLDLIGAPNPTFPNFFPNSARWFERLQAIEHELHELGLLKDHSLEGRYFQNYSYGGVIQDDHIPFLRRGVPVLHLIPSPFPEVWHTMDDNEENLDESTIDNLNKILQVFVLEYLHL | 0.577 | 24 | 0.598603 | In | 0.657 | S | 0.21 | In |
| >6b8f1574bf889e7cef1277598a3ab1a85d6e3750 |  |  |  |  |  |  |  |  |
| MRLKKRFKKFFISRKEYEKIEEILDIGLAKAMEETKDDELLTYDEIKELLGD | 0.364 | 100 | 0.898369 | S | 0.517 | In | -2.84 | S |
| >d3ee93af8532cfd6ca035888c416165cb573f162 |  |  |  |  |  |  |  |  |
| MGHHHHHHGGHMSLVIRMAYSELYWQKEEVMPKKELEELQLKRLRWVVRHAYENVAHYRRKLKEAGVHPDDIKKREDIAKIPFTTKKDFAENYPFGLFAVPKEEIVRLHTSSGTTGKPKVVGYTANDLENWINLVARCLYMVGVRKHDIFQNMANYAFFTGGLGIHDGAERIGAMVIPAGVGNTERQVRCMADFGTTAIHSTPSYALHVKEVAEELGVDDKLSLRIGCFGAEPWSENTRKRLEDAFNIKAFDSYGLSEMNGPGVAFECEEQHGLHIWADHYFIEIIDPQTGEPLSEGEKGELVLTPLTKEALPVLRYRTGDITYIMDDECSCGRTHPKIHRILGRSDDMIIVRGINVFPSQIEHVLMQIPEVGDHFQVVITRNGTLDEITVRVEVRDELFTGELFDLQRLQQKVQRELQKELGLRTNVELVEKGTIERSKGKAKRVLDLREELEGGS | 0.445 | 76 | 0.629376 | S | 0.562 | S | -0.4 | S |
| >9b8036b2b54d0e8ba9ba4e161e75d851fae36bf4 |  |  |  |  |  |  |  |  |
| MSKDIKQVIEIAKKHNLFLKEETIQFNESGLDFQAVFAQDNNGIDWVLRLPRREDVMPRTKVEKQALDLVNKYAISFQAPNWIIYTEELIAYKKLDGVPAGTIDHNIGNYIWEIDINNVPELFHKSLGRVLAELHSIPSNKAAALDLVVHTPEEARMSMKQRMDAVRAKFGVGENLWNRWQAWLNDDDMWPKKTGLIHGDVHAGHTMIDKDANVTGLIDWTEAKVTDVSHDFIFNYRAFGEEGLEALILAYKEIGGYYWPKMKEHIIELNAAYPVSIAEFALVSGIEEYEQMAKEALEVQGS | 0.644 | 81 | 0.61228 | S | 0.53 | S | -1.2 | S |
| >59b94ce9de9fcb3cce447b0d62e8a026ba06ac6c |  |  |  |  |  |  |  |  |
| MAHHHHHHMIKKRKIKIDVKCKRIPTEKDDELKTEEDNRKNSKEGKIEERHHSDENNFINLETSKKLKVLQHMRMKKKGISTANLNYETKVIEKHDNEKKLLDKHFTKNITEKEIEEAHIESFIKENMKEFYDELNNKKKQQIEQEHEHEQDQEINKKQENNDNDLINNLYKLSDHLKIKTTHEDTSEKLNCITGITEVPIPLEIKMKNIEETEKFKRQILKNLHNMNKNKKGT | 0.327 | 100 | 0.651802 | S | 0.715 | In | 0.29 | In |
| >9b3dd36fa83f8e20524dbb5c0fadab5aa1b3c7c8 |  |  |  |  |  |  |  |  |
| MSKPPPKPVKPGQVKVFRALYTFEPRTPDELYIEEGDIIYITDMSDTNWWKGTSKGRTGLIPSNYVAEQAESIDNPLHEAAKRGNLSWLRECLDNRVGVNGLDKAGSTALYWACHGGHKDIVEMLFTQPNIELNQQNKLGDTALHAAAWKGYADIVQLLLAKGARTDLRNIEKKLAFDMATNAACASLLKKKQGTDAVRTLSNAEDYLDDEDSDLEHHHHHH | 0.726 | 82 | 0.999561 | S | 0.677 | S | -0.13 | S |
| >d3d0946ca7a58c9f6474f7f585964641d93361d1 |  |  |  |  |  |  |  |  |
| MGEKVSIILTSYNKPDYLQKAIESVIQQTHDLWELFIMDDHSNAETTAVIHKYLHDRRIQYHNSFVHPADRLKTARYATLINSALPFADGDYISYLTDDTVYHPERLSRMVQEFSHKPEAQAVYSKQKVVHVNERGEEISHFYRNANAVLDQAAFQVDHCSVMHRRSLLNLIHHKFGGYWDDDMKHWNHGDAIFWARLNNFTPFLPINEVLDTTYKTPDSFQNAYRFLPADLIDGSFVKGSDQNVYFFDQGVRHPVGEKWGFLYLNRTVAVPDPYLFQYRIGKILNIPNYILVKEADHPAIFYIEAGKKRRIVDQYAFQFYQFQRKDIVTIGKEEMETLPEGPPITWKRSELIKNPPGRRLFFIEREPFLFLNGVFHPISEQVTRKFFLHQKPISASFRNIQQFPIGKPFYPVYDEIIKKLNIATELEHHHHHH | 0.411 | 34 | 0.659168 | In | 0.902 | In | 0.25 | In |
| >e695a00dba2a3645e8f7dac86750358e6e23b81f |  |  |  |  |  |  |  |  |
| MAVTIPPARHAEPQRWIARLPGFKISENKAQALWELAGKNIEGLQTDKALPTDWQAWRSEPQNAALLENLKTFFAQMPSEDEAAQGSDGINLEHHHHHH | 0.565 | 82 | 0.746031 | In | 0.658 | S | -0.52 | S |
| >ed56bc5e23a688e93bc97b5a2476b659f08fcc25 |  |  |  |  |  |  |  |  |
| MLPELKAQAPGRAPKAGSETIIAAAFSSLLGCDVQDADADFFALGGHALLAMKLAAQLSRQVARQVTPGQVMVASTVAKLATIIDAEEDSTRRMGFETILPLREGNGPTLFCFHPASGFAWQFSVLSRYLDPQWSIIGIQSPRPNGPMQTAANLDEVCEAHLATLLEQQPHGPYYLLGYSLGGTLAQGIAARLRARGEQVAFLGLLDTWPPETQNWQEKEANGLDPEVLAEINREREAFLAAQQGSTSTELFTTIEGNYADAVRLLTTAHSVPFDGKATLFVAERTLQEGMSPERAWSPWIAELDIYRQDCAHVDIISPGTFEKIGPIIRATLNRLEHHHHHH | 0.648 | 25 | 0.579284 | In | 0.584 | S | -0.52 | S |
| >8235cd51ed6ee707115ffe4573b132ac84fa5f9a |  |  |  |  |  |  |  |  |
| MESYDIEGSNQNYVYINVNRWTSTEYPQNTFVYEVLRTPIGSSLESGPEIVKVGVRSTKVASKDITVTLDIDNCASIGEFSSFPDGVKVTLDKKELVIPAGSMLSSDSVTIEIEDGKWSEFVNTSYLLPLKVTSVSNAALSETHSSAYLAVSTSFTNCVPGATSVEGTLISDRSAWTATNNGVDVGTTLFDGNTRTYPSQDASSTVIVNLNGVYQNITGIRLQYYSRNYSLSSAAVYTSETGGEDYEYQGNVTFSRATPQYIRFYGAVSARYVKLELLPYSSGYGIVLSEFDMYQNELEHHHHHH | 0.501 | 37 | 0.58017 | In | 0.804 | In | 0.45 | In |
| >65c8f393fe1ac1f267c8462db0dd78e6bfbe7002 |  |  |  |  |  |  |  |  |
| MSLAGALKVGLLLPYSGTYAPLGEAITRGLELYVQSQGGKLGGRSISFVKVDDESAPPKATELTTKLIQSEKADVLIGTVHSGVAMAMVKIAREDGIPTIVPNAGADIITRAMCAPNVFRTSFANGQIGRATGDAMIKAGLKKAVTVTWKYAAGEEMVSGFKKSFTAGKGEVVKDITIAFPDVEFQSALAEIASLKPDCVYAFFSGGGALKFIKDYAAANLGIPLWGPGFLTDGVEAAAGPAGDGIKTVLHYVSDLDNAENQAFVKSFEAAYKIPPDVFAVQGWDAGQLLDAGVKAVGGDVAKRKELNAAMAAASFASPRGPFKLSAAHNPVQNFYLRELKGGKSVNLGLAAPAVADEAIGCKLSEGHHHHHH | 0.781 | 91 | 0.5 | S | 0.564 | In | 1.17 | In |
| >1a31e6bb946f661105826c4e806388f44380a8b7 |  |  |  |  |  |  |  |  |
| MQNITQSWFVQGMIKATTDAWLKGWDERNGGNLTLRLDDADIAPYHDNFHQQPRYIPLSQPMPLLANTPFIVTGSGKFFRNVQLDPAANLGIVKVDSDGAGYHILWGLTNEAVPTSELPAHFLSHCERIKATNGKDRVIMHCHATNLIALTYVLENDTAVFTRQLWEGSTECLVVFPDGVGILPWMVPGTDAIGQATAQEMQKHSLVLWPFHGVFGSGPTLDETFGLIDTAEKSAQVLVKVYSMGGMWQTISREELIALGKRFGVTPLASALSL | 0.517 | 30 | 0.628483 | In | 0.516 | In | 0.14 | In |
| >74d65ef34ab114c5266ac014acccdefead2a9a0e |  |  |  |  |  |  |  |  |
| MSLSANDKLTILWTTDNKDTVFNMLAMYALNSKNRGWWKHINIILWGASVKLVANDTQVQTEILEMLQSGITIEACQDCCENFGVASIITNLGITVRYMGIPLTEYLKNGEKILSIEGHHHHHH | 0.646 | 27 | 0.52193 | S | 0.609 | S | -0.08 | S |
| >267b96187d568030211ad9cd458f9e09309977cd |  |  |  |  |  |  |  |  |
| MAHHHHHHMPHFSLPAHEADTPPEPVDAASRRHCCGDDVELCCRLTAAEELHGHVRDCFSLFASRFAYTAVALACIGAPFSSSPPPARSGVLPGTPEASEAEEADAPRSAGGTFDVSTVATVLFLHVEDKVGACLGAAGGSDDDAKTPLLGVVVAFQYWRGFYCVAERRYASAAEAQGEAAALERGNLTVSQLLRMPQWQLMGEPAAEASLSPAPGSGHAKLNTSPGSTYMTPDFSGIDENTVAKHGAAYESLMALMVGTYL | 0.331 | 89 | 0.798262 | S | 0.898 | In | -0.46 | S |
| >474af6253fd477c532be35bd138e5b7717ce6792 |  |  |  |  |  |  |  |  |
| MRGSHHHHHHGSLATTLERIEKNFVITDPRLPDNPIIFASDSFLQLTEYSREEILGRNMRFLQGPETDRATVRKIRDAIDNQTEVTVQLINYTKSGKKFWNLFHLQPMRDQKGDVQYFIGVQLDGTEHVRDAAEREGVMLIKKTAENIDEAAKELIKCVVVGDGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGLEDYDRLRPLSYPQTDVFLICFSLVSPASFHHVRAKWYPEVRHHCPNTPIILVGTKLDLRDDKDTIEKLKEKKLTPITYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLCPP | 0.549 | 69 | 0.575172 | In | 0.853 | In | 0.06 | In |
| >0ab2182d9e22052bd7ac4363017d861ca8592462 |  |  |  |  |  |  |  |  |
| MEDTPLVISKQKTEVVCGVPTQVVCTAFSSHILVVVTQFGKMGTLVSLEPSSVASDVSKPVLTTKVLLGQDEPLIHVFAKNLVAFVSQEAGNRAVLLAVAVKDKSMEGLKALREVIRVCQVW | 0.412 | 97 | 0.569131 | S | 0.679 | S | 0.55 | In |
| >89eee26219a0f81b8a8fda7902830418adbec7c4 |  |  |  |  |  |  |  |  |
| ATTQDVDPAATWSAAQETQQGAPAVQEDPSLVDIRRAAGEAGSQASLLKNGTTQLVDGTTALNNGAAQLGDGTKAAQNGAAQLADGMVKLQAATGQMGNGATEIANGIDQAVGQFQNVEVIRGQLLTAINLAMSDPKLADVKPDLEDFKRQVETFKVDDNITSQMDKLRDGSRELANQLAVPGYSFHDGIYSATKGSKDLSAGLNDLSGGVDQALTGVRDLDNGAKKIDAMAKENQTRVGNIQRALPITKAGTPEAQEQGVTRTLAP | 0.751 | 84 | 0.928853 | S | 0.542 | In | -0.06 | S |
| >0d9c4f3956abc34c8c1ae5f61ab91285676a466e |  |  |  |  |  |  |  |  |
| MSLIGIYQDDKLIKTYKSEEKASEFLPKILDELLKEYDFTSLIYANGPGSYMGIKISYVSLSTLSIVKNIPLFAVSAFELNGYKPISANKNFCFVYKEGEICLEQNIPAEFFLPKNLQELKLNNDNLPFYFLDAIEGHHHHHH | 0.65 | 94 | 0.743909 | In | 0.65 | S | 0.15 | In |
| >02bf41507e5bf5cff82bd925dea3927a1c7d19cb |  |  |  |  |  |  |  |  |
| GAKDQLETLKRIIEKSEGISILINGEDLSYPREVSLELPEYVEKFPPKASDVLEIDPEGENIGIDDIRTIKDFLNYSPELYTRKYVIVHDCERMTQQAANAFLKALEEPPEYAVIVLNTRRWHYLLPTIKSRVFRVVVNVPKEFRDLVKEKIGDLWEELPLLERDFKTALEAYKLGAEKLSGLMESLKVLETEKLLKKVLSKGLEGYLACRELLERFSKVESKEFFALFDQVTNTITGKDAFLLIQRLTRIILHENTWESVEDQKSVSFLDSILRVKIANLNNKLTLMNILAIHRERKRGVNAWS | 0.746 | 93 | 0.531176 | S | 0.608 | S | -0.3 | S |
| >d146fa89f144c461e7e27fa2fc7d919afdc696fb |  |  |  |  |  |  |  |  |
| MSFLPSFILSDESKERISKILTLTHNVAHYGWIPFVLYLGWAHTSNRPNFLNLLSPLPSV | 0.186 | 12 | 0.837342 | S | 0.734 | In | 2.78 | In |
| >2af8f677b30bc61ce3fbd65c6f694a89c5b319c2 |  |  |  |  |  |  |  |  |
| MVKVKLINYTPKPLETVTWAALISYWDGWSTEAFEKISPNDVEIHLPRILSYGHESILEHATFTFSIEGCSRVCTHQLVRHRIASYTQQSQRYIKINPEDVEETFVIPESIKKDSELLKEWKELLKRSLELYEKSIERGIHQEDARFILPQSVKTKIVVTMNLRELKHFFGLRLCERAQWEIREVAWKMLEEIAKRKELKPIIEWAKLGPRCIQLGYCPERELMPPGCLKRTRERWKNLLEKY | 0.519 | 86 | 0.575336 | In | 0.531 | S | 0.49 | In |
| >05707d58bf0b2f024992550112d3abcec4a453ac |  |  |  |  |  |  |  |  |
| MEAVFVYGTLKRGERNHGLVAPYLHRVLPGFVEGFRLYHLPWGPHRPYAYPGMVPGEGRVFGEVLFLRPEALSLLDALEEEGEEYKRVRVRVETEEGPLEAWAYLYLGGLEGALPLPQGVWKG | 0.827 | 73 | 0.955476 | S | 0.781 | S | 0.21 | In |
| >c0e23bfb065d00f8a7e48d7b257eff75b92ae921 |  |  |  |  |  |  |  |  |
| SSSFDKGKYKKGDDASYFEPTGPYLMVNVTGVDSKGNELLSPHYVEFPIKPGTTLTKEKIEYYVEWALDATAYKEFRVVELDPSAKIEVTYYDKNKKKEETKSFPITEKGFVVPDLSEHIKNPGFNLITKVVIEKK | 0.808 | 100 | 0.824518 | S | 0.716 | S | 0.7 | In |
| >c78a07b0a4aef3b7bc218b481b530770519ed546 |  |  |  |  |  |  |  |  |
| MDEGIEKNIFVNLESQIDGVCPKFYVNVDDIDIIHEPPEFYQRLKKLIKKAQKRIFLSTLYIGKEERELINCLSNALSNNPSLHVHILADQLRCTRESPGCCSASLLMQLKKKFPDRCEIKLYHTPNLRGLRKQLVPHRFNEGWGLQHMKIYGADDNLIISGANLSRDYFTNRKDRYYLFSDKGLADFFFKTHFLFSQLSFECIPHLSDSSIQLSSTSPVIPFTLKWNNSCPNPLTNPQEFRVAASAKIQQLLQGNREKFLSRNPSKPLSSVYGSELINQAGDDNNKPFHKYEESAIVYPLFQCVPILTSDVHSTEEKVLSIIGTLLSRKEVNWTLTAGYFNVYPALRKQLLKSEGIGEVIVASQQANGFYRSPGPSKLIPPAYQYIAEQFLKDSRKKKRNIDVLQWQNKGNTYHAKGKHYSLSFSIINIFWSTALKSYIFEKFTNTILGFWLSTQHHKHPFLTTIGSSNYTSRSQQLDLESTLVVMTQNEKLKRKFSTEIELIKQHTKPMNTCQLEKVPMYVKALTSLMKKKL | 0.379 | 47 | 0.76143 | In | 0.95 | In | 1.8 | In |
| >5b4fbd6fc5e628439f91c45b7fde65c314c611ad |  |  |  |  |  |  |  |  |
| MLFPPSLPPTASGRSLGRVETPPGLVRFMVGLAEAPKGGRVLEPACADGPFLRAFREAHGTGYRFVGVEIDPHALDLPPWAEGVVADFLLWEPGEAFDLILGNPPYGIVGEASKYPIHVLREVKGLYKKTLSTWKGKYNLYGAFIEKSVRLLREGGTLVFVVPATWLVLDDFSLLRSFLAREGRTEVYYLGEVFPGRKVSAVVLRFRKGGKGLALWDTRRDGETFTPLLWSEKPEWKGEIIRFETGWTREMEASGPPLGSLFHIRFAARSPEFKKHPAVQKEPEPGLVPVLTGRNLKPGWIDYESNHSGLWMPKERAKELRDFYATPHLVVAHTKGTKVVAAWDEKAYPWREEFHLLPKEGVELDPLFLVEWLNSDKIQEYVKTLYRDFVPHLTLRMLERIPALLPRKGNTERRKHGPYTSPESAGSF | 0.695 | 70 | 0.939871 | S | 0.739 | S | 1.53 | In |
| >59089a463466c85761ab75f14a25e47342efc5eb |  |  |  |  |  |  |  |  |
| MKKLKRAYKMEINPTDEQKSKIHQTIGVSRFIYNFYIARNKEIYEKEGKFVSGMDFSKWLNNEYIPNNQEMKWIKEVSSKATKQAIMNGDKSFRDFFKKAKGFPRFKKKKNQDVKAYFPKNNKTDWTIERHRVKIPTLGWVRLKEFGYIPTNSIVKSGTVSQKADRYYVSILVEETDIKISNSNIGIKIFNHNNEGIGIDLGIKDFAICSNGNKFKNINKTSTIKKVEKNLKREQRKLSRKYESLKIRNKKEKGGNVTRQNIQKQIVKVQKLHQRLTNIRTDYINKIVSSIIKQKPSYITIEDLNVKGMMKNKHLSKAIASQKFFEFKTKLMSKCKQNDVELRIVDRFYPSSKTCSQCGEIKKDLKLSDRVYKCSCGLVIDRDLNASINLRNAKEYKIALEHHHHHH | 0.555 | 87 | 0.637702 | In | 0.957 | In | -0.9 | S |
| >5e0453cc25184d943f775eca627c4e2446ac5b88 |  |  |  |  |  |  |  |  |
| GSHMHERESSIRQLEADIMDINEIFKDLGMMIHEQGDVIDSIEANVESAEVHVQQANQQLSRAAN | 0.744 | 96 | 0.685497 | S | 0.545 | S | -3.6 | S |
| >441d728c592e8e2455118c2712d937c7405ea3cf |  |  |  |  |  |  |  |  |
| MSERKAINKYYPPDYNPLEAEKLSRKMAKKLKTMNKSHASIRLMTPFSMRCLECNEYIPKSRKFNGKKELLKEKYLDSIKIYRLTISCPRCANSIAFRTDPGNSDYVMEVGGVRNYVPQKPNDDLNAKTAVESIDETLQRLVREKEMEQNEKMGIKEQADDKMDLLEKRLAKIQQEQEDDEELENLRKKNLEMSQRAEMINRSKHAQQEKAVTTDDLDNLVDQVFDNHRQRTNKPGNNNDEKRTPLFNPTSTKGKIQKKSSVRTNPLGIVIKRGKSLK | 0.471 | 91 | 0.62515 | In | 0.979 | In | 1.18 | In |
| >7e493285f6d4e6817de5c4c2274946bbeff13715 |  |  |  |  |  |  |  |  |
| MSLSGTRTSSQQILKEFASVVTEFQRSLIAGTDNQDPLQLVQEFRSIAGEAALVCAEETEDQRDRTQFVNFELEAKLWYLVELLVSFRTSDAPMDDIELHDYNSNAVFKKAQLQEDPELYVVWLIIAWIQENLTVSPRPAELPTTKWSNTLLAGGLKSSDLDCPLREEGVQIHPKDNQDDHCFYKYMYELILAGKYEEVRRECEYSDNLTLGMIMCGLEDYVDPRIDLELAGDYEGHQGIKKRALWRRAVYALSRNPNLDKYEAAIYAFLSGTIPQDIDEQQLDWERMLLVYLNQIWNIKIENYLLEKERINKEELIEQMPSQPLSLSAVLNIVASKHVEESEHPIRVLMGAVILNTISPAVKSFIDMLLDAVKGVDQENDLLSEPYILRILTHLVIFLDKACPGVIEEGDKSKLVTTYVSLLNLYEQYDLVPVYISCLDEQDIMEAYSFFLSNLVGDSSRERQLELCYFFQLPTANILKRTAQRIFNDTEPHYNLADTVTMNSEVTDIDLHLISAVDWLMKGRLHVDAVESIIALCRRFLANGKVNSLSTFFEQHNMDDLIKNYELDQLSAKEEYPEDRFVQEIGQYTKLITGFRQYKNWENSSHTVSSSKNTSALLQQFQAFASTLRGLVTEFLVELTEHTDMPSEDRDMLYNIRSLYTPYLLIELHNSYTSTAEKLGVPSFLQEAVNLSTMVANETDKIYLLFQNSGKLKEYLHLVAKAVALIGHEGHHHHHH | 0.579 | 56 | 0.627774 | In | 0.651 | S | -1.63 | S |
| >4f7a315acaf63187b0a1908abd65096e0b75e5b7 |  |  |  |  |  |  |  |  |
| GMSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLEN | 0.883 | 85 | 0.867271 | S | 0.616 | In | -2.71 | S |
| >6857bf1414bda99524326114efa03d0e9ade6024 |  |  |  |  |  |  |  |  |
| MERYKALEQLLTELDDFLKILDQENLSSTALVKKSCLAELLRLYTKSSSSDEEYIYMNKVTINKQQNAESQGKAPEEQGLLPNGEPSQHSSAPQKSLPDLPPPKMIPERKQLAIPKTESPEGYYEEAEPYDTSLNEDGEAVSSSYESYDEEDGSKGKSAPYQWPSPEAGIELMRDARICAFLWRKKWLGQWAKQLCVIKDNRLLCYKSSKDHSPQLDVNLLGSSVIHKEKQVRKKEHKLKITPMNADVIVLGLQSKDQAEQWLRVIQEVSGLPSEGASEGNQYTPDAQRFNCQKPDIAEKYLSASEYGSSVDGHPEVPETKDVKKKCSAGLKLSNLMNLGRKKSTSLEPVERSLETSSYLNVLVNSQWKSRWCSVRDNHLHFYQDRNRSKVAQQPLSLVGCEVVPDPSPDHLYSFRILHKGEELAKLEAKSSEEMGHWLGLLLSESGSKTDPEEFTYDYVDADRVSCIVSAAKNSLLLMQRKFSEPNTYIDGLPSQDRQEELYDDVDLSELTAAVEPTEEATPVADDPNERESDRVYLDLTPVKSFLHGPSSAQAQASSPTLSCLDNATEALPADSGPGPTPDEPCIKCPENLGEQQLESLEPEDPSLRITTVKIQTEQQRISFPPSCPDAVVATPPGASPPVKDRLRVTSAEIKLGKNRTEAEVKRYTEEKERLEKKKEEIRGHLAQLRKEKRELKETLLKCTDKEVLASLEQKLKEIDEECRGEESRRVDLELSIMEVKDNLKKAEAGPVTLGTTVDTTHLENPKAVTPASAPDCTPVNSATTLKNRPLSVVVTGKGTVLQKAKEWEKKGAS | 0.72 | 99 | 0.881498 | S | 0.744 | S | 0.2 | In |
| >18112d57b0e21a27cac3fef67944e4abcedc5d3d |  |  |  |  |  |  |  |  |
| SIGGKIPESRVSASLPCFQASAEGLSRRKSLAEAGKRDIFYGEDDVADLMFREEEVEQDTVMRAYRSNEAMKSIQDTRRRQRRFFCFECFDFLKLFFSRDRN | 0.674 | 90 | 0.559421 | In | 0.769 | In | 0.57 | In |
| >867a979ad391b339083419867f0031b346c47960 |  |  |  |  |  |  |  |  |
| SELRKLYGPLCGYYLGRRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRGALMSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRCYCNYTTDVVASVAFGTPVDSWQAPEDPFVKHCKRFFEFCIPRPILVLLLSFPSIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAAEERRRDFLQMVLDARHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNTLSFATYLLATNPDCQEKLLREVDVFKEKHMAPEFCSLEEGLPYLDMVIAETLRMYPPAFRFTREAAQDCEVLGQRIPAGAVLEMAVGALHHDPEHWPSPETFNPERFTAEARQQHRPFTYLPFGAGPRSCLGVRLGLLEVKLTLLHVLHKFRFQACPETQVPLQLESKSALGPKNGVYIKIVSR | 0.576 | 43 | 0.613768 | In | 0.505 | In | 0.52 | In |
| >714f2ee341b0653cf599b81243ce22e65a52b973 |  |  |  |  |  |  |  |  |
| MSLAANVWSKVCVALKRELGDAAFGSWIAPAMLREAATGDVVLVTSTGIARDWIRRSAWRRIGELWAAHDATGRRIDLKSRLEFEAAAGAYVEATPKAVAAEPIEIVLPVSTDAPTVVAPSAKSPRTQGLQERFTFETFVPGPANEFAHAVARRIANWADGHFNPVLFHGPYGFGKTHLLNALAWEAMRNAPEKRVVYLTAERFLSTFVRAVMDRQTAAFKEELRAADLLIIDDVHFIAGKQSTQEELFHTLTALVGEGGRVVFSADRPPSAMTEMDAHLRSHLSAGLVCGLEPADRNLRLGILERKIQTLGAALGFEPSIRPEVMQFLADRFTDSVRELEGALNTLSARAGEGLSRMTLDEVQAILRPHLRSGEKRITIDDIQKATAEHYGMKQAEGHHHHHH | 0.636 | 31 | 0.774439 | In | 0.867 | In | 0.01 | In |
| >7863815acaa9bbf84ae55d7f0d5de7cff162fc9d |  |  |  |  |  |  |  |  |
| SAVTSWLEVLRSAEKTALLQDGKRMVHYLFPDGKEMAEEYDEKTSELLVRKWRVKNALGALGQWQLEVGEPVPSGAGSLGSELIKETHLHAQGHQNKFPVADSKSPLPEGCV | 0.852 | 97 | 0.883579 | S | 0.698 | S | 0.33 | In |
| >358b4a6ac33257618bd549b8d3ecb1ad5ceda56b |  |  |  |  |  |  |  |  |
| GMADLTDALIDAALERGRSAHANEPRAAKARYDRSSARVIVDLENGCTFAFPPRLAQGLEGASDDQLCAVEILGQGYGLHWETLDVDLSLPGLMAGIFGTKAWMAKRAEPPPSAAKDAWSNLPR | 0.843 | 51 | 0.585352 | S | 0.512 | In | 0.06 | In |
| >7f499176c7b2ec1fd74e602280fe704e3d1a7423 |  |  |  |  |  |  |  |  |
| MLPVARGDFIREFRLRASLRALERVKDYLGEKVYTRLRELLYYRLEGKEFPRGKIDFKMAVAYSGGSDSSATVKILRWAGFDVIPITAKLPQIDWSKLEEETVFVEVPGYMEEMKRLIEKRAPICGRCHSMVMQTVERKARELGIKVLATGDMLSVGSGSIYYKDGIIILNLPAFLALSKPELLDILNWKKYELKFGCPLWREAVKKVPIMKRFAIQRILREVRAGVLPRDMARELIMDVLKS | 0.598 | 81 | 0.645145 | In | 0.542 | In | 0.2 | In |
| >a7db1b08becf0bc89028409f6513fd5b9f56e26c |  |  |  |  |  |  |  |  |
| QGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLIGEKLFHGVSMSERCYLMKQVLNFTLEEVLFPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKDTVKKLGESGEIKAIGELDLLFMSLRNACI | 0.675 | 56 | 0.720078 | In | 0.531 | In | 0.67 | In |
| >8fe32795f6a5ad7f3026427e87e17787952efb06 |  |  |  |  |  |  |  |  |
| MFYRLFPLWLVVVAALFTAVGPAAAQDDDRSTVSVSGEGTVTAQPDQALVRFGVVTRAETAGAARTQNATAAKTAMNAVRGLDVPEEKLQMESLRLQPQYEYNDEENRRELVGYEATRQVVVELDRLDVLPQLVADVVEGGANELDGIDYRLSDRTQFRNEALREAARAAREKARLLAATLDAQLGSVRTINEQSFDFVRPQPQRARVEMAKTTSTSQGEPEAYAAGEIEVSAQVQVTFDLLTGPDRLEHHHHHH | 0.508 | 49 | 0.845573 | S | 0.863 | In | -1.51 | S |
| >7bea0cf566566f18dc5a99740482402cf7d16191 |  |  |  |  |  |  |  |  |
| SMMKRVHRTDVKAEIVREPGAKETTHRKLIDTPDGADRFVLTEFEVSPNGSTPPHFHEWEHEIYVLEGSMGLVLPDQGRTEEVGPGEAIFIPRGEPHGFVTGPGQTCRFLVVAPCERPPVRNVFLSEDPYEYTQMPEYTSLLESK | 0.832 | 100 | 0.680401 | S | 0.693 | S | -0.6 | S |
| >d49e787094094d43382aa4df8ed3efaaea1f782b |  |  |  |  |  |  |  |  |
| MTAPKITQKFNEVETKTTEILNKVLTDDRYFTVTSSFKQDATLGIEYYVTKVTPKTTEAKKSMVQKTFAYDFEKSIDPTSSYFGTTNRETVLSMAKRKRSVVAINASGWRSNGEVMGLQIKDGVLYKDYDAAGYTGAEACVFFDDGTMKVYGNREVDADILISKGARNSFAFGIWLVKDSKPRTAQMTTWADLNVKHPRQAIGQRSDGTLVIITVDGRSLRSSGITAYDMPSLFLSEGCINAFLLDGGGSSQTAVEGKYINNISDGIERAVVDTLTISYPDDDTDSRFFEVQEGRGLATSLNRRVEFIESKPTWNVLDLGFSPDGLIDNTAKFKKALSDLSEKGGGKLHFPKGTYLIGKQNTTSASEKIELPSNVSIVGERRSYTKLLRNPNHSLDELLRITDHNYIEGIEIDGNSSVNKSSCRLIAGGNIKSFKMKDCSLVNATDRGVSIHGIGKSITIEGMYISNIANECINVAEGEIIKLIDSEITFSGTALWVGNAANIFTKNNLAKSLKTFVRYKNSQNAICSGNIITNNIDRAIWGSVREAVFSDNVFKQCHSDYHLYFIQEDTGTNDLIVTGNSVYSDVEGTAFIRTPSDIDRRRVSGNVGNIPSLNLDLEHHHHHH | 0.546 | 32 | 0.701138 | In | 0.787 | In | 1.22 | In |
| >e6340a2a2e53de6463e1f1e35c8bd58a34a2672a |  |  |  |  |  |  |  |  |
| MNTYSITLPWPPSNNRYYRHNRGRTHVSAEGQAYRDNVARIIKNAMLDIGLAMPVKIRIECHMPDRRRRDLDNLQKAAFDALTKAGFWLDDAQVVDYRVVKMPVTKGGRLELTITEMGNE | 0.124 | 54 | 0.82338 | In | 0.582 | S | 1.03 | In |
| >50f4803a3a0382bd62765309f25c2250f3451190 |  |  |  |  |  |  |  |  |
| MSILEQVQPIETMLPERYYTMSTEDMEKRVREIKEKMGKMLFIPGHHYQKDEVVQFSDAVGDSLQLAQVAASNKDAKYIVFCGVHFMAETADMLTTDDQVVILPDMRAGCSMADMADIEQTERAWKELTKLFGDTMIPLTYVNSTAAIKAFCGRNGGATVTSSNAKQMVSWAFTQKERLVFLPDQHLGRNTAYDLGIPLDKMAVWDPHTDSLEYDGDIEEIQVILWKGHCSVHQNFTVKNIESVRKNHSDMNIIVHPECCYEVVAASDYAGSTKYIIDMIESAPPGSKWAIGTEMNLVNRIIQQHPDKEIVSLNPFMCPCLTMNRIDLPHLLWALETIERGEEINVISVDKQVTAEAVLALNRMLERVMAGDPLEHHHHHH | 0.487 | 82 | 0.579729 | In | 0.56 | S | -1.43 | S |
| >004e285d6889dd91280485c2c4237f30a66dfb69 |  |  |  |  |  |  |  |  |
| MAAVSLRLGDLVWGKLGRYPPWPGKIVNPPKDLKKPRGKKCFFVKFFGTKNHAWIKVEQLKPYHAHKEEMIKINKGKRFQQAVDAVEEFLRRAKGKDQTSSHTSADDKDWRNSSEERSRPNSGDEKRKLSLSEGKVKKNMGEGKKRVTSGSADRGSKCLKRAQEQSPRKRGRPPKDEKDLTIPESSTVKGMMAGPMAAFKWQPTATEPVKDADPHFHHFLLSQTEKPAVCYQAITKKLKICEEETGSTSIQAADSTAVNGSITPTDKKIGFLGLGLMGSGIVSNLLKMGHTVTVWNRTAEKEGARLGRTPAEVVSTCDITFACVSDPKAAKDLVLGPSGVLQGIRPGKCYVDMSTVDADTVTELAQVIVSRGGRFLEAPVSGNQQLSNDGMLVILAAGDRGLYEDCSSCFQAMGKTSFFLGEVGNAAKMMLIVNMVQGSFMATIAEGLTLAQVTGQSQQTLLDILNQGQLASIFLDQKCQNILQGNFKPDFYLKYIQKDLRLAIALGDAVNHPTPMAAAANEVYKRAKALDQSDNDMSAVYRAYIH | 0.712 | 86 | 0.642886 | In | 0.588 | In | 1.79 | In |
| >30d0a3dbde80497c2519567c89a893f05d32bb85 |  |  |  |  |  |  |  |  |
| MSLELPTGARAPDFAAPGALAGKPFSFKLHQALKKGPVVLYFYPKAFTQGCTLEAHAFAEASADFRAAGATVIGMSNDDVATLQKFSTEACRDKFAVASASANLIKAYDVDLKKPDGTSTGLTKRTSYVIGRNGRIVMVHSDMDYRDHVRLTLAAVRKLKGGKEGHHHHHH | 0.796 | 77 | 0.697139 | S | 0.658 | S | 1.03 | In |
| >df7ad48bc635f7c8278c686a9ee444b8b13f6bfd |  |  |  |  |  |  |  |  |
| TSSVAAFTSGTIGLSSPTGNFVSSSNNPFNGSYFLQQINTMGMLTTSLYVKVDTTTMGTRPTGAVNENARYFTVWVSSFLTQCNPSNIGQGTLEPSNISMTSFEPARNPISPPVFNMNQNIPYYASRFGVLESYRPIFTGSLNTGSIDVRMQVTPVLATNNTTYNLIAFTFQCASAGLFNPTVNGTVAIGPVVHTCPAARAPVTV | 0.463 | 54 | 0.654944 | In | 0.718 | In | 3.19 | In |
| >bdcce0fd1f67454c057553240a6ca336f4687efc |  |  |  |  |  |  |  |  |
| MSFRKVEKKPTEMGRNMTHEKSDSDSDNEGAPMTVGGYTEFVARSDSDWDEPVYSGKARSNYNLTGTAKGTGPINSFSRKHFPNY | 0.179 | 97 | 0.966208 | In | 0.649 | In | 2.67 | In |
| >355e7782bdae32f517d95a4259ae3e16bffa43be |  |  |  |  |  |  |  |  |
| MLELLFLLLPVAAAYGWYMGRRSAQQNKQDEANRLSRDYVAGVNFLLSNQQDKAVDLFLDMLKEDTGTVEAHLTLGNLFRSRGEVDRAIRIHQTLMESASLTYEQRLLAIQQLGRDYMAAGLYDRAEDMFNQLTDETDFRIGALQQLLQIYQATSEWQKAIDVAERLVKLGKDKQRVEIAHFYCELALQHMASDDLDRAMTLLKKGAAADKNSARVSIMMGRVFMAKGEYAKAVESLQRVISQDRELVSETLEMLQTCYQQLGKTAEWAEFLQRAVEENTGADAELMLADIIEARDGSEAAQVYITRQLQRHPTMRVFHKLMDYHLNEAEEGRAKESLMVLRDMVGEKVRSKPRYRCQKCGFTAYTLYWHCPSCRAWSTIKPIRGLDGL | 0.281 | 57 | 0.698776 | In | 0.606 | In | -0.87 | S |
| >6416e4f7dca7bba0f776e4910d90666563e8b8a5 |  |  |  |  |  |  |  |  |
| GGSMMPMFLTVYLSNNEQHFTEVPVTPETICRDVVDLCKEPGESDCHLAEVWCGSERPVADNERMFDVLQRFGSQRNEVRFFLRHE | 0.745 | 79 | 0.526938 | S | 0.591 | In | -1.59 | S |
| >e7ed5b2a27e7d9fce11248ddcbecbe72f5786d42 |  |  |  |  |  |  |  |  |
| GPGSMAHIHVCRHGQDMDNVRGILNGHRDQPLSELGRRQAAAVADKIKESGVNYAAIYSSPLQRALETASAICAAVNVQVQVRADLIERDFGVLSGKPYADIPKYAGDRVLQGDKVLYFLEVESCETFDKCYERAQGVLADMDAAHAGEHVLLVCHGDIGKMLQAANAKVGWQDGLRLPYFANTEVIEL | 0.581 | 80 | 0.752734 | S | 0.588 | S | -0.51 | S |
| >86963ec27f1dba3c667874900edea7e398ded078 |  |  |  |  |  |  |  |  |
| MPEFLEDPSVLTKDKLKSELVANNVTLPAGEQRKDVYVQLYLQHLTARNRPPLPAGTNSKGPPDFSSDEEREPTPVLGSGAAAAGRSRAAVGRKATKKTDKPRQEDKDDLDVTELTNEDLLDQLVKYGVNPGPIVGTTRKLYEKKLLKLREQGTESRSSTPLPTISSS | 0.633 | 99 | 0.572531 | S | 0.656 | In | 1.71 | In |
| >a97a54744b7533e72816891bcb12bf744b9869ea |  |  |  |  |  |  |  |  |
| MSLAGDRFPTLNLSPPVTGGVTIKGYKPTVVTENQDKSLIIDLGPNASAYAVFDGHGPHGDVIAEFVSNKFTSSITQLLSSYVGNLSNNITPPTRQQIKNFFIVLFHNMDLQLSELRYGISMWSGCTAAVCVRIFNEAHIAWVGDSRVVIYKFTKPIYKGLDSLDKDSTTNSCEPSISWWTTSDHVPNRPDELSRITDCGASITVYSTPWLNKSTTRIREHGIAMSRSFGDKAGSQFGVICKPDMASIKLESNNNSCESEDKWAIVVASDGIWDSISEEEVGYKIMKNLIWKEPESSGEDFPSNNQRPTQEEVTELANSLSSEAWRFRASVENYSDDTTLIISIIEGHHHHHH | 0.592 | 53 | 0.772202 | In | 0.853 | In | 0.82 | In |
| >a0c4e1a8718171a11d1d8b13b314c8024948b560 |  |  |  |  |  |  |  |  |
| MSIWSKLSALFRGAAHDGAQTVVDANALRILDQEIRDADSAQGKARDELAKLVARRRALETEVAQLTDQSRKYESSARAAMNKGDQALALEVAQRIADLEKDAGQKSTQMTELRAAEEKLRTVIAQTDTKVEALRREIEIVKVNESVQKAQAAVISRSGSASGVVGSAADSLKRIKERQAVREEQFRLHSESEDRKTGADLDAKLAAAGILPGASGAEDVLARLMAPKNEALPAPMLAIEDRQKVARDGSDALEHHHHHH | 0.67 | 72 | 0.751599 | S | 0.843 | In | -0.45 | S |
| >c32e004aec4cff6b97c373441c00cefcc6dfad3a |  |  |  |  |  |  |  |  |
| DYTNYTNKEMQAVTIAKQIKNGQVVTVGTGLPLIGASVAKRVYAPDCHIIVESGLMDCSPVEVPRSVGDLRFMAHCGCIWPNVRFVGFEINEYLHKANRLIAFIGGAQIDPYGNVNSTSIGDYHHPKTRFTGSGGANGIATYSNTIIMMQHEKRRFMNKIDYVTSPGWIDGPGGRERLGLPGDVGPQLVVTDKGILKFDEKTKRMYLAAYYPTSSPEDVLENTGFDLDVSKAVELEAPDPAVIKLIREEIDPGQAFIQVP | 0.66 | 61 | 0.65328 | S | 0.6 | In | 0.92 | In |
| >1ad192123893d07858cdd0acc42e688a844cac7f |  |  |  |  |  |  |  |  |
| MDPNTVSSFQVDCFLWHVRKRLADQELGDAPFLDRLRRDQKSLRGRGNTLGLDIETATRAGKQIVERILEEEPDEALKMPASRYLTDMTLEEMSRDWFMLMPKQKVAGSLCIKMDQAIMDKTIILKANFSVILDRLETLILLRAFTEEGAIVGEISPLPSLPGHTGEDVKNAIGVLIGGLEWNDNTVRVSETIQRFAWRSSDEDGRLPLPPNQKRKMARTIESEV | 0.532 | 61 | 0.774727 | In | 0.616 | S | -0.17 | S |
| >17166ef7a3816a2e7c2715176d2033f1498b0e4b |  |  |  |  |  |  |  |  |
| MMKLALTLEADSVNVQALNMGRIVVDVDGIELAELINMVCDNGYSLRVVDESDQTSAECTPPFATLTGIRCSTAHITETDNAWLYSLSHQTSDFGESEWIHFTGNGYLLRTDAWSYPVLRLKRLGLSKTFRRLVVTLIRRYGVSLIHLDASAECLPGLPTFDW | 0.149 | 17 | 0.578606 | In | 0.587 | S | -0.65 | S |
| >9a980b1e22f25ed7e3d441103bf8ee23d63f93e6 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMSFSSRPVPEILKTSHLLCWETRLTSKTDKWPQSGHRPGATAKTTFPTLRPVPRRPSTWSRRSRRLHGMHLSRKRRWSCTTNFLNLSNWTRMTGPRPRQKAAVAEGAVRVEHRVLHKPRTHVGLQHNSPLLFQTKHTLISHIQLPKENPIKHSYTPHISHTHTHTHTHTHRSDVIKLQPLPVMAPWGLPAHPHEPASMAAGQASGGSHSDMELALEAYSFCSLERERTVYS | 0.646 | 97 | 0.652425 | In | 0.828 | In | 0.69 | In |
| >11af5292cfbd6a062db2cd8aa823249a3bd6b061 |  |  |  |  |  |  |  |  |
| MAHHHHHHSLSIDRKKLILEAATKSFTQFGYKATTMDLVAKLANVGKGTIYTFFKNKEELFDEIFTTLLKEMKQKADEAMEPSLPFHENVHRALFAILEFRKTHQLTIKIFQENAEIGTMAVQEVIQKMERSILSYIKSKIEDGIKSGAIKPCDPELTAFVMLKLYIALIFDWEKQHPPLDKETIAGLLELYVVKGLSANEG | 0.543 | 98 | 0.5 | S | 0.765 | S | -0.53 | S |
| >90e756c47463fb3f5b830bf48ac500a92b5e03dc |  |  |  |  |  |  |  |  |
| MAHHHHHHMSTPRTTATAAKPKPYSFVNDYSVGMHPKILDLMARDNMTQHAGYGQDSHCAKAARLIGELLERPDADVHFISGGTQTNLIACSLALRPWEAVIATQLGHISTHETGAIEATGHKVVTAPCPDGKLRVADIESALHENRSEHMVIPKLVYISNTTEVGTQYTKQELEDISASCKEHGLYLFLDGARLASALSSPVNDLTLADIARLTDMFYIGATKAGGMFGEALIILNDALKPNARHLIKQRGALMAKGWLLGIQFEVLMKDNLFFELGAHSNKMAAILKAGLEACGIRLAWPSASNQLFPILENTMIAELNNDFDMYTVEPLKDGTCIMRLCTSWATEEKECHRFVEVLKRLVASTA | 0.438 | 61 | 0.790303 | In | 0.531 | S | -0.13 | S |
| >f267ef607303b737b2266a02e234c6e7cc278e3e |  |  |  |  |  |  |  |  |
| MTVRKNQATLTADEKRRFVAAVLELKRSGRYDEFVRTHNEFIMSDTDSGERTGHRSPSFLPWHRRFLLDFEQALQSVDSSVTLPYWDWSADRTVRASLWAPDFLGGTGRSTDGRVMDGPFAASTGNWPINVRVDSRTYLRRSLGGSVAELPTRAEVESVLAISAYDLPPYNSASEGFRNHLEGWRGVNLHNRVHVWVGGQMATGVSPNDPVFWLHHAYVDKLWAEWQRRHPDSAYVPTGGTPDVVDLNETMKPWNTVRPADLLDHTAYYTFDALEHHHHHH | 0.566 | 17 | 0.797965 | In | 0.935 | In | 0.56 | In |
| >fc555ea0991b2f1a88be07f6af6ac5fd53844ac5 |  |  |  |  |  |  |  |  |
| MRLPIFLDTDPGIDDAVAIAAAIFAPELDLQLMTTVAGNVSVEKTTRNALQLLHFWNAEIPLAQGAAVPLVRAPRDAASVHGESGMAGYDFVEHNRKPLGIPAFLAIRDALMRAPEPVTLVAIGPLTNIALLLSQCPECKPYIRRLVIMGGSAGRGNCTPNAEFNIAADPEAAACVFRSGIEIVMCGLDVTNQAILTPDYLSTLPQLNRTGKMLHALFSHYRSGSMQSGLRMHDLCAIAWLVRPDLFTLKPCFVAVETQGEFTSGTTVVDIDGCLGKPANVQVALDLDVKGFQQWVAEVLALAS | 0.449 | 34 | 0.82782 | In | 0.736 | In | -0.02 | S |
| >9812632dca533b9089e88738a9668f7e88e5748d |  |  |  |  |  |  |  |  |
| SNVVDLGRVGACVLKHAVTGEAVELRSLWQEKACVVAGLRRFGCMVCRWIAQDLSNLRSILDQHDVRLVGVGPEALGLQEFLDGGYFSGELYLDESKQIYKELGFKRYNSLSILPAALGKPVRDVASKAKAVGIQGNLSGDLLQSGGLLVVSKGGDKVLLHFIQKSPGDYVPQENILQALGISAEVCSSKPPQCDEEVCGR | 0.805 | 94 | 0.651663 | S | 0.781 | S | 1.17 | In |
| >ecfa5be06c3fdb5326b4ba4101eff8e815e21f6c |  |  |  |  |  |  |  |  |
| MAKSKNHTNHNQNKKAHRNGITKPKKHIFLSMKGVDAKFIKNLRFSRKNNKRQINKSVESKA | 0.522 | 97 | 0.699139 | S | 0.753 | In | -4.22 | S |
| >df31da6c21cbd26f08fa6323150a537acd64aca9 |  |  |  |  |  |  |  |  |
| AIAEPDGTYEPGFVGIRFCQECNNMLYPKEDKENRILLYACRNCDYQQEADNSCIYVNKITHEVDELTQIIADVSQDPTLPRTEDHPCQKCGHKEAVFFQSHSARAEDAMRLYYVCTAPHCGHRWTE | 0.855 | 93 | 0.666179 | S | 0.511 | In | -2.02 | S |
| >c6e2516d5af5b1feb5321b837ebc56a019821afb |  |  |  |  |  |  |  |  |
| GPGSMGRGILNFNVYDGSLEAIVHGYKDGFLRPEEYASLVQCDSLGDMKSQLQVTDYGNFLQHDGQAQLSARVIVERAQEHYAKQLRELRSWAAPPLSHFLDFITYEHMIANVLKLIIAKRSGRDGMQLLTRCHPLGWFPELASLTAAADVREMFEVVLIDSPVGRFFNANGGLESDLDELSVEYIQGMLMKNYYEQFYDLCCELGGATAEVMCPLLELEADLTVLRSTVNTMGVPDIHATDRRRLFPSFGSLVDIHDDIAEAESVEQLRERVRRFGLMHELLDDSRYNSTSSSSAKGGNNNRGNNAVSGAASGQTGASAAGASSLERRFVEVTVALYRDALSRQFQYGVFYAWAKLKELEVSNLHWIADCIAQGMMHRVDEYVSIF | 0.35 | 26 | 0.593768 | In | 0.566 | S | -0.43 | S |
| >a74ff0b7d0ceac890f47e174db60dadcff8cab31 |  |  |  |  |  |  |  |  |
| VEPKEQQMRASNQFADVTSGVVYIHASPAAVCPHVEWALSSTLQAKANLVWTPQPALPPQLRAVTNWVGPVGTGARLANALRSWSVLRFEVTEDPSPGVDGQRFSHTPQLGLWSGAMSANGDIMVGEMRLRAMMAQGADTLAAELDSVLGTAWDQALEVYRDGGDAGEVTWLSRGVG | 0.619 | 18 | 0.694446 | S | 0.5 | S | 0.41 | In |
| >9019d9beaf81a9e3f0523994ba383ef5658211f3 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMKLAEALLRALKDRGAQAMFGIPGDFALPFFKVAEETQILPLHTLSHEPAVGFAADAAARYSSTLGVAAVTYGAGAFNMVNAVAGAYAEKSPVVVISGAPGTTEGNAGLLLHHQGRTLDTQFQVFKEITVAQARLDDPAKAPAEIARVLGAARAQSRPVYLEIPRNMVNAEVEPVGDDPAWPVDRDALAACADEVLAAMRSATSPVLMVCVEVRRYGLEAKVAELAQRLGVPVVTTFMGRGLLADAPTPPLGTYIGVAGDAEITRLVEESDGLFLLGAILSDTNFAVSQRKIDLRKTIHAFDRAVTLGYHTYADIPLAGLVDALLERLPPSDRTTRGKEPHAYPTGLQADGEPIAPMDIARAVNDRVRAGQEPLLIAADMGDCLFTAMDMIDAGLMAPGYYAGMGFGVPAGIGAQCVSGGKRILTVVGDGAFQMTGWELGNCRRLGIDPIVILFNNASWEMLRTFQPESAFNDLDDWRFADMAAGMGGDGVRVRTRAELKAALDKAFATRGRFQLIEAMIPRGVLSDTLARFVQGQKRLHAAPRE | 0.3 | 26 | 0.7268 | In | 0.602 | S | 0.16 | In |
| >3e90706e7c947a3151eed624c5f5052996b0077c |  |  |  |  |  |  |  |  |
| MSLSRHPPFPPSRNDNHSVHLPEFTMSNAVHETDSKNTVASKPPLDPHLKALENEAIHIFREVAAEFDNPVMLYSIGKDSSVLLHLARKAFFPGRIPFPLLHVNTGWKFKEMIEFRDNIVKEYDLDLISYTNPRGALENVTPFSHGSALYTDIMKTEALRQALDAGQFDAAFGGARRDEEASRAKERIYSFRTPDHKWDPRNQRPELWNIYNGMVRKGESVRAFPLSNWTEVDIWRYIEAENIPLVPLYYAAERPYIERDGMMILAEDERLELLPGEEIKHGSIRFRTLGCFPLTGAIRSEAATLQDVIAELEIATVSERQGRAIDRDQSGSMEKKKREGYFEGHHHHHH | 0.763 | 59 | 0.804491 | In | 0.563 | S | 0.13 | In |
| >9c3477c7adbae171d5e4b24f6b147da38414c412 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLQGTENLYFQSHMTILVVTGTGTGVGKTVVCAALASAARQAGIDVAVCKPVQTGTARGDDDLAEVGRLAGVTQLAGLARYPQPMAPAAAAEHAGMALPARDQIVRLIADLDRPGRLTLVEGAGGLLVELAEPGVTLRDVAVDVAAAALVVVTADLGTLNHTKLTLEALAAQQVSCAGLVIGSWPDPPGLVAASNRSALARIAMVRAALPAGAASLDAGDFAAMSAAAFDRNWVAGLVG | 0.579 | 31 | 0.558038 | In | 0.827 | In | 0.13 | In |
| >3d93fc0d034530da9f0de6421541ccc3b4c66ff0 |  |  |  |  |  |  |  |  |
| GAMERVLKVFHYFENSSEPTTWASIIRHGDATDVRGIIQKIVDCHKVKNVACYGLRLSHLQSEEVHWLHLDMGVSNVREKFELAHPPEEWKYELRIRYLPKGFLNQFTEDKPTLNFFYQQVKNDYMLEIADQVDQEIALKLGCLEIRRSYGEMRGNALEKKSNYEVLEKDVGLRRFFPKSLLDSVKAKTLRKLIQQTFRQFANLNREESILKFFEILSPVYRFDKECFKCALGSSWIISVELAIGPEEGISYLTDKGANPTHLADFNQVQTIQYSNSEDKDRKGMLQLKIAGAPEPLTVTAPSLTIAENMADLIDGYCRLVNGATQSFIIRPQKEGERALPSIPKLANNEKQGVRSHTVSVSETDDYAEIIDEED | 0.566 | 70 | 0.746638 | In | 0.877 | In | -0.1 | S |
| >3876725f1f6cb362aee15e9bb3c327455605f8cb |  |  |  |  |  |  |  |  |
| MAKTVEIIEKRFPSGTLASHALVAGDPQSPAVVLLHGAGPGAHAASNWRPIIPDLAENFFVVAPDLIGFGQSEYPETYPGHIMSWVGMRVEQILGLMNHFGIEKSHIVGNSMGGAVTLQLVVEAPERFDKVALMGSVGAPMNARPPELARLLAFYADPRLTPYRELIHSFVYDPENFPGMEEIVKSRFEVANDPEVRRIQEVMFESMKAGMESLVIPPATLGRLPHDVLVFHGRQDRIVPLDTSLYLTKHLKHAELVVLDRCGHWAQLERWDAMGPMLMEHFRAA | 0.522 | 51 | 0.585299 | S | 0.603 | S | 0.04 | In |
| >0ae0194d572789b6b340b388693aa73f4a93a98e |  |  |  |  |  |  |  |  |
| MSCTRMIQVLDPRPLTSSVMPVDVAMRLCLAHSPPVKSFLGPYDEFQRRHFVNKLKPLKSCLNIKHKAKSQNDWKCSHNQAKKRVVFADSKGLSLTAIHVFSDLPEEPAWDLQFDLLDLNDISSALKHHEEKNLILDFPQPSTDYLSFRSHFQKNFVCLENCSLQERTVTGTVKVKNVSFEKKVQIRITFDSWKNYTDVDCVYMKNVYGGTDSDTFSFAIDLPPVIPTEQKIEFCISYHANGQVFWDNNDGQNYRIVHVQWKPDGVQTQMAPQDCAFHQTSPKTELESTIFGSPRLASGLFPEWQSWGRMENLASYR | 0.593 | 79 | 0.59782 | In | 0.973 | In | 1.01 | In |
| >f4bfa4cdc26f2f922c7c79debfef2a16e1ac632e |  |  |  |  |  |  |  |  |
| MTDELKSYEALKAELKKSLQDRREQEDTFDNLQQEIYDKETEYFSHNSNNNHSGHGGAHGSKSHYSGNIIKGFDTFSKSHHSHADSAFNNNDRIFSLSSATYVKQQHGQSQND | 0.863 | 98 | 0.948868 | S | 0.583 | S | 0.6 | In |
| >31571301714b55c6a53992911668835af6f9da7a |  |  |  |  |  |  |  |  |
| MILGKAFARYLTNTLGVETLKITTLKKFFKTGYLQSIAINMLLYDYGISKKHDYGKLASVEERIKILKGKGEEITDYIFLKNGEIKIPSYIIPENPQFIIDLGNMDLLQDEEKISLEQQILVSIKTIREYLFDYNLKLAHTPDSFKLEGRNKIEILNYIPKDNAIVLNPYGDTIANEEIIRNTKFFIIGGIVDKGRRLKNATYELSRRYGYDELPQVKISLRNSTVGVPDRINSIIEILLKVIVGYNLEEAIISTQSNADKVSRLIKELNTLDKFDYNTILDLKNWLKIDDRLLKLALKKSKFRVHLPLEHHHHHH | 0.448 | 71 | 0.917565 | In | 0.726 | In | 0.94 | In |
| >39d7c5507ce9905cfe3c9e6407805976d52e78b7 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGGHMFMRVEKIMNSNFKTVNWNTTVFDAVKIMNENHLYGLVVKDDNGNDVGLLSERSIIKRFIPRNKKPDEVPIRLVMRKPIPKVKSDYDVKDVAAYLSENGLERCAVVDDPGRVVGIVTLTDLSRYLSRASITDILLSHRTKDYQHLCPKCGVGVLEPVYNEKGEIKVFRCSNPACDYEE | 0.545 | 90 | 0.561041 | S | 0.528 | S | 1.67 | In |
| >7051bb4d5be784f34eb738cb11088ed986632e8c |  |  |  |  |  |  |  |  |
| MNNTLSKRLCLTAMLTLAAVVYTTSAFAETSKLVIESGDSAQSRQEAAMEKEQWNDTRSLRQKVNTRAEKEWDKADAAFDNRDKCEQSANINAYWEPNTLRCLDRRTGRVITPLEHHHHHH | 0.371 | 60 | 0.716115 | S | 0.632 | In | -0.05 | S |
| >5caf2f59f8e4ff46729845649450b87d9ea7343c |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHGLVPRGSHMKVRAFLAVDLDEGLRDHVSRIQDTLKSADAQVKFVEPENLHFTLKFFGDVGEGKLRRIENVVRDTLRGYEPFEISIRGAGVFPNPRYIRVVWLGVENPETFSDLQRSLDMEFVKMGFRPERDYVPHLTVGRVKGPRNRDKLAELIGELQNVEVGSMRVSEVSLKRSELTPAGPIYTDMEVFRL | 0.71 | 85 | 0.608679 | S | 0.707 | S | 1.33 | In |
| >e57b9a5dd743eb9a9773a57a30aa2535f28f3305 |  |  |  |  |  |  |  |  |
| MRRVSSLTWSEVLGYHRTRKGIGRRSLLVDRGESGYRNRFLPDGRILYMGEGKRGDQEPVGGNLRLLLAHREGTPLRVFLRERPGVWRDLGCYRVEGWRYALLEEEGRWVYWFTLAPGGCGEAP | 0.633 | 98 | 0.92026 | S | 0.619 | S | 1.49 | In |
| >e012f023de4c45ee6aaf26810c67d3218f7e19bb |  |  |  |  |  |  |  |  |
| GSHMRVYHECFGKCKGLLVPELYSSPSAACIQCLDCRLMYPPHKFVVHSHKALENRTCHWGFDSANWRAYILLSQDYTGKEEQARLGRCLDDVKEKFDY | 0.869 | 87 | 0.605884 | In | 0.5 | S | 0.66 | In |
| >cbc1be19b53483e22ca26134a0e2703b6d580d57 |  |  |  |  |  |  |  |  |
| MKKQQQTRTAIYCRLSRDDEQSGDSMSIENQRSMLTRYAKENGLEIIDWYIDDGWSGTNFDRPDFQRMKSDIEDGKIDIVLVKDLSRLGRNQIETSLCIQVFFPQHDVRFIAVSENIDTAKGEDDFMELRNLFNEWFVRDTSRKVKNGYRQRALNGDYTGAFAPYGYKKDEQDKHKLVPDENVAHVVKRIFQMAVEGYSPYKISMALRADKILTPRAYVAQEYQRYANVFNPQYPYDWGATTIKIIIQNKVYLGHMVSHKYTKKSFKTKEVVAVPENEWIEVKNTHEPLIDEETFELAQKIIRVKKRPTKEGEHQIFAGLLRCSTCGQSLSFARGGNSKYSGGKGGRGSFACNQSRRKGKEYCSFHYISYLDIYTVILEDIRKNAAIARENEAAFVEMVSDISKAKLKKQVSAAAKEKEKLRHRENELQAILKKLYEDNALGKITDEQFISLSKDFTDEQRQIKERLKALENILSQVTEKQENTAKFLELVREYTDIKELTKPILNELIDKVVVFDAEKARGDRVQRIDIYYRFVGLIA | 0.511 | 77 | 0.779818 | In | 0.933 | In | 0.53 | In |
| >64ca17011d022bbca5f56581cd7a494a72d986c2 |  |  |  |  |  |  |  |  |
| MSLKFISWTLNEPSNAQFAEYATEVSPGEWRILNPDAWKNWGGNQKNFWLAFMNHHDKIYGVGLHDFGVNADGTIYSYKAGEGYPVLNEDETAIRWWMRDSLRFLVDHYPNIKWSLQMVCFDPSRVEPILDNVNGAQDTFVRQLKKIAELYLNRFPGRIKGIEMDFEKTTSRPRSAQEPEKYRDLLRRVKDEVCRPLGLEIRVNLHAMTGEYNPSWYAWTNYSTIAEADLDEYQIMSYDFSAGNTAPGPSTPVWWLLEVLDHVRNVLPPEKTFIGNAAYGRRWSLNRDRLGTAIAYWQLLQWQNGLFKHNAGQRNDQGEFIWFDQSFIPYCGFHDEESGYEYTFLHCYDRFQARFARLLPYNNSQVVYRGTYRNAEYITSYSKHQRAKFTGIQRVLTEATSTSGHISDAHSVWEPKDDLPGYTFYGYNTLPGQYLYDEATNSCVRASGAIGQDGRVTYSFSLSTPGTYRLIATVYFPYLNCRIPINVNGVDYVIGEDIPDWYPFFVNPSHHFFDCGTFSFSTSNTITVGVTQDSAQIMGFVICRDFEHGMSGGEVEYNVNLQVPKKRGSVLDGVVTKVDADMPDEVTLTAELIRRHPRPAIFWEDLFGPFADQEVENLTETNYYQRAITGFRAPNGPYPVDGACRGPLQNIGYSNGTWRPVAASGGDEAHVYCDARNSSAQLVLNREFSFNAHIEADIRALDSNAIYGIRFYARNPGTVGNGYIAQLNYRNRTVRLVYESGGSSQVLATAAMSETLANGLGSRHTLTIRVHNGRIKILVGAVEYINYSGSLPGSLSRGAHGVYANGTRIRCYRLHIATNDRYEPMEKVSAIVDGREYVALEEDRPYSYDELGYLVYSGFNPDEGLDIDIDNDYDNFPIVNIPSWVGEKNIRIRLVDAGVWLRNFYVGDGEEYSIAWNSDLEGFITTLGFIKNYGCKGVGMWTIGQEDPRVFTYLPPPNDEGHHHHHH | 0.527 | 8 | 0.775636 | S | 0.618 | In | 0.57 | In |
| >8a9a84ac018ee699050b07ceb0a57ee1c9a59ade |  |  |  |  |  |  |  |  |
| MRNRIEQALQQMPASFAPYLRELVLAKDFDATFSAEQYQQLLTLSGLEDADLRVALLPIAAAYSYAPISEFYVGAIVRGISGRLYLGANMEFTGAQLGQTVHAEQCAISHAWMKGEKGVADITINFSPCGHCRQFMNELTTASSLKIQLPKRAAKTLQEYLPESFGPADLGIDSGLMSPVNHGKTSDDDEELIQQALRAMNISHSPYTQNFSGVALKMRSGAIYLGAYAENAAFNPSLPPLQVALAQAMMMGESFEDIEAAALVESATGKISHLADTQATLEVINPDIPLSYLSL | 0.446 | 45 | 0.523991 | S | 0.504 | In | -0.34 | S |
| >24aed56088cc3bcba005c459289132615b23aa1e |  |  |  |  |  |  |  |  |
| MTSQTPTRKPRARDLGLPFTGVTGPYNAITDVDGVGVGFQTIIENEPRPGRKRPARSGVTAILPHMQSETPVPVYAGVHRFNGNGEMTGTHWIEDGGYFLGPVVITNTHGIGMAHHATVRWMVDRYASTYQTDDFLWIMPVVAETYDGALNDINGFPVTEADVRKALDNVASGPVQEGNCGGGTGMITYGFKGGTGTASRVVEFGGRSFTIGALVQANHGQRDWLTIAGVPVGQHMRDGTPQSQLQERGSIIVVLATDLPLMPHQLKRLARRASIGIGRNGTPGGNNSGDIFIAFSTANQRPMQHRSAPFLDVEMVNDEPLDTVYLAAVDSVEEAVVNAMIAAEDMGGTPFDRLLVQAIDHERLRAVLRQYGRLA | 0.328 | 25 | 0.859679 | In | 0.698 | In | 1 | In |
| >4774e641866c80d3970f8b82f9f2ceaa46d2d8eb |  |  |  |  |  |  |  |  |
| MAHHHHHHMMRHFRISSATQPQCAARTKMTGFNLFTQDMQQERRVLKTKSFKGGRENMRIMAKLWGELPLGQRAMYNTRALQRAALVTRDPEKKNNTFNLLMKLFGRDKVLLKAGNEAFTALMAKSTMHAMSHRDNSRLREKLNVKAFCTSKERSNQSVTSAFKRFISPSMLLFDSFTEMQRSVAPTRKSAFTAITKVLSVSNVTVSGEEYVMKRYSYLSPELQNLFAPISDVEAPFFEMFCADRCASFDWKCFEIIRLFASFRGIEVDLGNNAVQDELFRSLISTDRSRDGIYFRARRSLERLEKLRSSDFGLFITKRLPPSVNVPPAAYGIDSNLDDVSVATLLAETRCGHSVYDDVLTRAAMLRTKEKNKQLAVYNVTRMITTETLSNRQVRVERLKDKVHPQLSAAKPVLKLNAAPAPLCKKNPLSAPVPLKKVPAMVKPQRKRTLPIVTKTTARKAAPVASPDRNAPPAVTLQLVTKRAAGVSRTETKGVPASCRARVKVSAAQKVAAAATKKALKKGTSTSQATTATDEGGDFFAEDFMAEGEGDDVGLEVADKSAGDTNAQVAAPTAPVKQKRKSAGRRAARSHLLAPESMLPATARSQKVIVAHTPTCRKAPRPVCTSPSSPFTPARRKVSLADNIRAQLASFL | 0.327 | 47 | 0.712456 | In | 0.989 | In | 0.11 | In |
| >c8b3d4617a5bbbc560f6505825258d2e3792e80e |  |  |  |  |  |  |  |  |
| MAQCDFGALPGAEEHTMDYEFLRDITGVVKVRMSMGHEVVGHWFNEEVKENLALLDEVEQAAHALKGSERSWQRAGHEYTLWMDGEEVMVRANQLEFAGDEMEEGMNYYDEESLSLCGVEDFLQVVAAYRNFVQQKLEHHHHHH | 0.805 | 95 | 0.892692 | S | 0.612 | S | -4.14 | S |
| >910addb6d5626669cdb5493715181a0235137695 |  |  |  |  |  |  |  |  |
| MSLTPKTTEQPHEDIPQSGGTGEHAPFLKGYPGGLFKPENNITRAEAAVIFAKLLGADENSAGKNSSITFKDLKDSHWAAWAIKYVTEQNLFGGYPDGTFMPDKSITRAEFATVTYKFLEKLGKIEQGTDVKTQLKDIEGHWAQKYIETLVAKGYIKGYPDETFRPQASIKRAESVALINRSLERGPLNGAVLEFTDVPVNYWAYKDIAEGVIYHSYKIDENGQEVMVEKLDEGHHHHHH | 0.831 | 90 | 0.755188 | S | 0.918 | S | -0.05 | S |
| >449ff5e3db09ba1997bc117fd7fb433be48b7e10 |  |  |  |  |  |  |  |  |
| MGQSFNAPYEAIGEELLSQLVDTFYERVASHPLLKPIFPSDLTETARKQKQFLTQYLGGPPLYTEEHGHPMLRARHLPFPITNERADAWLSCMKDAMDHVGLEGEIREFLFGRLELTARHMVNQTEAEDRSS | 0.248 | 56 | 0.683572 | In | 0.607 | S | -1.01 | S |
| >15a4fa5dff93ef002ace5a1698e9284938d28152 |  |  |  |  |  |  |  |  |
| MSLIYTITLNPAIDRLLFIRGELEKRKTNRVIKTEFDCGGKGLHVSGVLSKFGIKNEALGIAGSDNLDKLYAILKEKHINHDFLVEAGTSTRECFVVLSDDTNGSTMIPEAGFTVSQTNKDNLLKQIAKKVKKEDMVVIAGSPPPHYTLSDFKELLRTVKATGAFLGCDNSGEYLNLAVEMGVDFIKPNEDEVIAILDEKTNSLEENIRTLAEKIPYLVVSLGAKGSICAHNGKLYQVIPPKVQERNDTGAGDVFVGAFIAGLAMNMPITETLKVATGCSASKVMQQDSSSFDLEAAGKLKNQVSIIQLEEREGHHHHHH | 0.713 | 94 | 0.605898 | S | 0.648 | S | 0.37 | In |
| >69de0cb3fcfcb41887c36703714ba57938937b91 |  |  |  |  |  |  |  |  |
| MAPKQDPKPKFQEGERVLCFHGPLLYEAKCVKVAIKDKQVKYFIHYSGWNKNWDEWVPESRVLKYVDTNLQKQRELQKANQEQYAEGKMRGAAPGKKTSGLQQKNVEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRARVDPTVENEETFMNRVEVKVKIPEELKPWLVDDWDLITRQKQLFYLPAKKNVDSILEDYANYKKSRGNTDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILADHPDAPMSQVYGAPHLLRLFVRIGAMLAYTPLDEKSLALLLNYLHDFLKYLAKNSATLFSASDYEVAPPEYHRKAVLEHHHHHH | 0.608 | 94 | 0.722287 | S | 0.546 | In | 1.28 | In |
| >31d7f6757c93095c300fda95f9e2cb09c7f7363e |  |  |  |  |  |  |  |  |
| GSHQSEVNKDLQQYWSSLNVVPGARVLVPLCGKSQDMSWLSGQGYHVVGAELSEAAVERYFTERGEQPHITSQGDFKVYAAPGIEIWCGDFFALTARDIGHCAAFYDRAAMIALPADMRERYVQHLEALMPQACSGLLITLEYDQALLEGPPFSVPQTWLHRVMSGNWEVTKVGGQDTLHSSARGLKAGLERMDEHVYVLERV | 0.854 | 35 | 0.63555 | In | 0.868 | S | -0.56 | S |
| >63146055358963ae6a38a541a47a321e6a4904a2 |  |  |  |  |  |  |  |  |
| GSEMSVVEYEVVSKNLTSKMSHELLFSVKKRWFVKPFRHDRQLGKLHYKLLPGNYIAFGLYVLKNQDYARFEIAWVHVDKDGKIEERTVYSIETYWHIFIDIENDLNCPYVLAKFIEMRPEFHKTAWVEESNYSIAEDDIQMVESIKRYLERKIASD | 0.683 | 85 | 0.507514 | S | 0.515 | S | -0.61 | S |
| >dac2799d0b4d652384a51a2972751fd69c9342ea |  |  |  |  |  |  |  |  |
| GMGGSNMKLDFSVAVHSILYLDAHRDSKVASRELAQSLHLNPVMIRNILSVLHKHGYLTGTVGKNGGYQLDLALADMNLGDLYDLTIPPTISYARFITGPSKTDEQADQSPIAANISETLTDLFTVADRQYRAYYHQFTMADLQADLNHHGTFLQHEQDSES | 0.594 | 23 | 0.763487 | In | 0.517 | S | -0.63 | S |
| >8060860a18c275a81160e1b16f126185e7d50f90 |  |  |  |  |  |  |  |  |
| VVEFTTCPDKPGIPVKPSVKGKIHSHSFKITWDPPKDNGGATINKYVVEMAEGSNGNKWEMIYSGATREHLCDRLNPGCFYRLRVYCISDGGQSAVSESLLVQTPAV | 0.689 | 96 | 0.903817 | S | 0.575 | S | 2.29 | In |
| >2e70b9093c883ed56d7b5400c876c8f365747865 |  |  |  |  |  |  |  |  |
| MNPASRASETSPARDNDVLRQRAARCRFVLVETSHPGNVGSTARALKTMGFCESGSYVLVRPREPGAQSHPDAVAMASGADDVLADARVVDDVGEALAGASLVIALTARPREFGPRRIGPRAAAQEVAALLAAPGATVAFVFGNERYGLPNEVVERCHVVTHIPANPAYASLNLSQAVQLIAYEVRMALLADTGTGDTRVDGVGFVGEPATAEQIDGMFAHLERGLVEIGFLDPAQPKKLMPRLRRLFARTQLEAEEVNILRGIAKRMLGRRADAAAPPTGAADDCR | 0.448 | 41 | 0.749788 | In | 0.826 | In | 0.69 | In |
| >99be182b7d16e7e41e06fb4ce8a913df2cd6989f |  |  |  |  |  |  |  |  |
| QDCGLPPDVPNAQPALEGRTSFPEDTVITYKCEESFVKIPGEKDSVICLKGSQWSDIEEFCNRSQDCGLPPDVPNAQPALEGRTSFPEDTVITYKCEESFVKIPGEKDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKQPYITQNYFPVGTVVEYECRPGYRREPSLSPKLTCLQNLKWSTAVEFCKKKSCPNPGEIRNGQIDVPGGILFGATISFSCNTGYKLFGSTSSFCLISGSSVQWSDPLPECREIYCPAPPQIDNGIIQGERDHYGYRQSVTYACNKGFTMIGEHSIYCTVNNDEGEWSGPPPECRG | 0.733 | 99 | 0.99611 | S | 0.748 | In | 1.02 | In |
| >488552154319340ffbb6f5c009a6f1618707d01c |  |  |  |  |  |  |  |  |
| SRMPSPPMPVPPAALFNRLLDDLGFSAGPALCTMLDTWNEDLFSALPTNADLYRECKFLSTLPSDVVEWGDAYVPERTQIDIRAHGDVAFPTLPATRDGLGLYYEALSRFFHAELRAREESYRTVLANFCSALYRYLRASVRQLHRQAHMRGRDRDLGEMLRATIADRYYRETARLARVLFLHLYLFLTREILWAAYAEQMMRPDLFDCLCCDLESWRQLAGLFQPFMFVNGALTVRGVPIEARRLRELNHIREHLNLPLVRSAATEEPGAPLTTPPTLHGNQARASGYFMVLIRAKLDSYSSFTTSPSEAVMREHAYSRAPTKNNYGSTIEGLLDLPDDDAPEEAGLAAPRLSFLPAGHTRRLST | 0.267 | 19 | 0.720577 | In | 0.843 | In | 0.36 | In |
| >ee60e3df6a7752127c66783c94f7b4bfc08c9dbc |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMATIAFQGNLAGIMRKIKIGLALGSGAARGWSHIGVINALKKVGIEIDIVAGCSIGSLVGAAYACDRLSALEDWVTSFSYWDVLRLMDLSWQRGGLLRGERVFNQYREIMPETEIENCSRRFAAVATNLSTGRELWFTEGDLHLAIRASCSIPGLMAPVAHNGYWLVDGAVVNPIPISLTRALGADIVIAVDLQHDAHLMQQDLLSFNVSEENSENGDSLPWHARLKERLGSITTRRAVTAPTATEIMTTSIQVLENRLKRNRMAGDPPDILIQPVCPQISTLDFHRAHAAIAAGQLAVERKMDELLPLVRTNI | 0.437 | 14 | 0.682888 | In | 0.56 | S | 0.68 | In |
| >bd86d7a71130602938b1b5bb259e9c4f653cab07 |  |  |  |  |  |  |  |  |
| MDTNNFTVKVEYVDADGAEIAPSDILTDYHYVSTPKDIPGYKLREIPHNATGNITDTGIIVRYIYDKTIDVRYVDETGKDLLPVVEIINSEAAVLEHHHHHH | 0.721 | 98 | 0.922066 | S | 0.694 | S | -2.77 | S |
| >2d9a7b094b3422169d00788dbafe1445aee62f91 |  |  |  |  |  |  |  |  |
| RGSRFTWRKECLAVMESYFNENQYPDEAKREEIANACNAVIQKPGKKLSDLERVTSLKVYNWFANRRKEIKRRANIAAILES | 0.724 | 87 | 0.90842 | S | 0.506 | In | 0.02 | In |
| >df8ca73d404d8d4ab0358276b6e06a058f74e341 |  |  |  |  |  |  |  |  |
| MVTVVAETLTKESFEEYGTIISPDEEISRMQNLEKGANQGTAIKLLQVSQVENKSTSKVPNWNLFRCFPQPHLNRVFTQGSNQAISHSIKVLEKHPCSTQTFVPMGRTSAEVAYLVVVAKEIGNKPDLSTLRAFTCLGNQAVTYGLGTWHAPMIVLGKEEHLDFSVLIYESLDPDRPEKDCVEEHYSDGDVCIII | 0.56 | 92 | 0.867848 | S | 0.773 | S | -0.25 | S |
| >e8bda8c2c0755d007c51e45c82786225fe518241 |  |  |  |  |  |  |  |  |
| MSLSSRGHSTLPRTLMAPRMISEGDIGGIAQITSSLFLGRGSVASNRHLLQARGITCIVNATIEIPNFNWPQFEYVKVPLADMPHAPIGLYFDTVADKIHSVSRKHGATLVHCAAGVSRSATLCIAYLMKFHNVCLLEAYNWVKARRPVIRPNVGFWRQLIDYERQLFGKSTVKMVQTPYGIVPDVYEKESRHLMPYWGIEGHHHHHH | 0.507 | 19 | 0.862804 | In | 0.74 | In | 1.67 | In |
| >e674a788da73963efceb061179839c37554c0faf |  |  |  |  |  |  |  |  |
| MSLNTNPARARDFTDPRIPNRDECVLRYLVDRWAVERPDKVHVVWEDGEEWTFADVRRRITEKAAGLEKLGVRQGDFVAVWLPNGRDALLAFYAINYLGAVFVPFNTAYRGNLLAHVVANSGAKLIIAHPDLVGRMGEIDRAGLAQLVLTTQGDAPDVGLEVTRFDDLAGDAVSPLDRPIQPWDIQSIIYTSGTTGPSKGVLSSYLHMFSNAGPESWPMVGEDDRYMCVAPIFHIGGMGPPFVMLARGASVAMVESFSTDRFWEIAARTKATVVFLLGVMATFLMKRPPSPEDRNHTVRKAFMVPLTDDAPAFTERFGIDIYTIFNMTEISSPIVSEANPVKRGTCGKARPGVEVRLVDANDCEVPVGEIGEMLVRTDRPWGMNSGYNRNPEATAKAWGNGWFHTGDAFRQDEDGYFYFVDRVKDAIRRRGENISSFEVEVEVCAHPAVREAAAIAVPSEFSEDEVMVVVAPVPGQAIDVPELARFLIDRMPYFMVPRYIRVMDELPKTPSAKVLKADLRSEGVTADTWDREKAGMRVRRESFAGEGHHHHHH | 0.629 | 48 | 0.668244 | In | 0.622 | In | 0.01 | In |
| >fcc5d5295b2b9f15338a5c51b11ae5c0dffb4a9d |  |  |  |  |  |  |  |  |
| MSLDSPADNPVDSTASDRPVEGRDRDDEGRARNARPRDGLGRPLPYGANGVPRQPEGVVRAPEATVAEAQRLLDDGKPFHAHEVFEDAWKAGPEEERELWRGMAQLAVGLTHSARGNATGGARLLRRGAGAVTAWAASEAGRERPYGMDLGAVAGWARELAGEVEGGGSVDAAARAPRLRGEGHHHHHH | 0.859 | 93 | 0.929075 | S | 0.506 | S | 0.7 | In |
| >7966c684c01dc78df7299ba4bc921c4b83a6d5cf |  |  |  |  |  |  |  |  |
| SLSYELARVPRGEHHFHSVRVRTGDVLGLIEKTAFFELDDTLFVYPFYQRFSYQVNERHQEDGVSGSSPIHQHHSSVAASVRNYQPGDRFAALDWKTSARRSQLMTKEFEPSRSKNLFLLMDRFSSDAFEEVVSVTASILHSVLKNGAGAGLASIGKEKNIFPIQEGDQHFKHMLRHLAIAHCDAADPISRYAREELGKPSVRQADQVVVTGQLTEDMLHLAEIGGGRVTVILAKEKDAELSQAENVMIERMMKRQIRVRIMRGGRVSRVV | 0.424 | 46 | 0.633394 | In | 0.914 | In | 0.81 | In |
| >6a203fe215b40b791aa7e7fe5d6e5568e35864cf |  |  |  |  |  |  |  |  |
| MSLVNMGKIAFLVSGEKMFKKIKKYIDTEDVILVETTISNALEEAKNLIDEGVKVILTKLAIKIKIEDKVEIPVLSIENNISDYIELLKEIDIKNNRIAFVDYIEAPESLVDLSKIISNDIVFKTFTSEEECEAIVKELKNKSYSILIGSVLTKKYANKYDLKSYEVEISKNSYSMYIEIAEQIIKFTDLKKSKAKVLKSIEIMIDNYLKNEEKMEKNILDKVTMNDVEKDRLIEGLKRNGFSLSNTAKDLGMSRTTLWRKLKKFNIIIEEGHHHHHH | 0.651 | 100 | 0.526321 | In | 0.875 | In | 0.02 | In |
| >a261fca8f07bef9728c5a4cdcc89f821c1c5e86d |  |  |  |  |  |  |  |  |
| GMNNKIYFTPGPSELYPTVRQHMITALDEKIGVISHRSKKFEEVYKTASDNLKTLLELPSNYEVLFLASATEIWERIIQNCVEKKSFHCVNGSFSKRFYEFAGELGREAYKEEAAFGKGFYPADITVPADAEIICLTHNETSSGVSMPVEDINTFRDKNKDALIFVDAVSSLPYPKFDWTKIDSVFFSVQKCFGLPAGLGVWILNDRVIEKSKALLAKRKSIGTYHTIPSMLEKARVNQTPETPNAMNIFLLGKVTGDMLQISADGIRKQTEEKAALINTYIESSKVFSFGVEDAKLRSMTTIVANTTMLPGEINKILEPFDMAVGAGYGSKKETQIRIANFPAHSLEQVHKLVQTLKEKIG | 0.52 | 76 | 0.686204 | In | 0.875 | In | 0.86 | In |
| >8700c3dc0db6c277f80511b03693ab779099489f |  |  |  |  |  |  |  |  |
| SLTEQRPLTIALVAGETSGDILGAGLIRALKERVPNARFVGVAGPRMQAEGCEAWYEMEELAVMGIVEVLGRLRRLLHIRADLTKRFGELKPDVFVGIDAPDFNIILEGNLKKQGIKTIHYVSPSVWAWRQKRVFKIGRATDLVLAFLPFEKAFYDKYNVPCRFIGHTMADAMPLDPDKNSARDVLGIPYDAHCLALLPGSRGAEVEMLSADFLKTAQLLRQTYPDLEIVVPLVNAKRREQFERIKAAVAPDLSVHLLDGMGREAMVASDAALLASGTAALECMLAKCPMVVGYRMKPFTFWLAKRLVKTDYVSLPNLLAGRELVKELLQEECEPQKLAAALLPLLANGKTSHAMHDTFRELHQQIRCNADEQAAQAVLELAQ | 0.517 | 62 | 0.708506 | S | 0.586 | S | 0.02 | In |
| >17f1908321ea4bfcf9c7f4802a0cc8fa4f9c9862 |  |  |  |  |  |  |  |  |
| MTMDEQQSQAVAPVYVGGFLARYDQSPDEAELLLPRDVVEHWLHAQGQGQPSLSVALPLNINHDDTAVVGHVAAMQSVRDGLFCLGCVTSPRFLEIVRRASEKSELVSRGPVSPLQPDKVVEFLSGSYAGLSLSSRRCDDVEQATSLSGSETTPFKAVALCSVGRRRGTLAVYGRDPEWVTQRFPDLTAADRDGLRAQWQRCGSTAVDASGDPFRSDSYGLLGNSVDALYIRERLPKLRYDKQLVGVTERESYVKA | 0.349 | 59 | 0.542676 | S | 0.805 | In | 0.56 | In |
| >c8f9fb06f54a92d4d66ffee1d0cb3a747e114e34 |  |  |  |  |  |  |  |  |
| MIDTAIEEMIPLIGVRAACAATGRAPASYYRAHSKRLSAQSDTFTSTAVTDPSGPRESAQPRALSAAEREHVLAVLNSQRFADMAPAVVYATLLDEGIYLCSESTMYRLLRERGQTGDRRRQATHPAAVKPELVAHQPNSVWSWDITKLRGPAKWSYYYLYVILDIFSRYVVGWMVASRESKVLAERLIAQTLAAQHISADQLTLHADRGSSMSSKPVALLLADLGVTKSHSRPHTSNDNPLSEAQFKTLKYRPDFPKRFESIEAARVHCDRFFGWYNHEHKHSGIGLHTPADVHYGRADQIRRHRATVLDTAYRDHLERIRSQTTRATRATGLQRDQPTTEGGPADSINPRKSCLRNVDRFRPGLLDLPAPAPVDLRRLLPSGQIR | 0.462 | 40 | 0.717939 | In | 0.927 | In | 1.45 | In |
| >a76b7d75ec56885cb08172cf6c1ac7dceb8100ba |  |  |  |  |  |  |  |  |
| GMNFPIDEKLIREKQNELHIKDLGMASIRDLVALVTNLEKATGTKFCRMEMGVPGLPAPQIGIETEIQKLREGVASIYPNLDGLPELKQEASRFAKLFVNIDIPARACVPTVGSMQGCFVSFLVANRTHKNREYGTLFIDPGFNLNKLQCRILGQKFESFDLFEYRGEKLREKLESYLQTGQFCSIIYSNPNNPTWQCMTDEELRIIGELATKHDVIVIEDLAYFGMDFRKDYSHPGEPLYQPSVANYTDNYILALSSSKAFSYAGQRIGVLMISGKLYEREYPDLEESFGRLRFGEALSSSALYALSSGATHSAQWGMAAMLKACNDGEYNFRDSVIEYGRKARIMKKMFLDNGFNIVYDKDGNEPLADGFYFTVGYKGMDSSKLIEKFVRYGMCAITLKTTGSKRNEAMRICTSLLPESQFPDLEKRLQMLNAEG | 0.613 | 37 | 0.7196 | In | 0.705 | In | 0.77 | In |
| >2adeb7ed496f5a71959d88c5dcfed86d05a99f59 |  |  |  |  |  |  |  |  |
| GPGSMFHDLTNVTQSKRQVHPHHMHESDMEVAARMTAPVFTTDEGIAEKLDQLSRKVDAIYGLMLHLVQQRQLPTAPELLTSTSQTSTIEAVHPAFPEEEPNFVSMLSSAMPHATHSAPQFFESPTHDPLTSGTIDTVTTPMVSTRDKEEEHIKATDNKRALSNPQSSSATRGDDHNSWKRHDCFILLVEFKCQRMKRCVSSSFITPGQYAIVQGDRGHDCGVVNQCSEWNAEKGCIVREESFDGNVTNVVRMKGEMGRVLRVATEEEVERLFGEISRNENLALKTCREIVARLGLDMDVVDCEYQFDQQKISFYYEASRSIDFRQLNSELFRIFGVRIWLQNVNNSVKNVVPAGAMSREEKTQYQKSGLRPPTYK | 0.487 | 67 | 0.724752 | In | 0.986 | In | 0.18 | In |
| >724057f186a9b838da8e50328e49fcbff418542e |  |  |  |  |  |  |  |  |
| MSLRPDDFSFIPSMQGPFLLQPAVADDELIEDYCDIYSFGMNPIDVLAIGGSEGRLDLLLLVSEVSGRWSKLNDHGLASMKLIVSQVHSLYLSNNNPYMVLQPDIQSPYSLIAYHANGLHVVDIESWARDLNLNFENSEFLNNEEENDEDELSNVLVSIPSRTSVLERLDTNPLNESTDAVVGCAQLYYPSLGKILISLTRNWQTTVFDDSDLATMGVNKESLSNEMDYSKSLGTSSLEQVDDLDEKLTYTPLYVSLLEKTPFTDPSIPSLVERTEGHHHHHH | 0.632 | 62 | 0.538501 | In | 0.769 | In | -1.42 | S |
| >76558b12656d63e869c7ec113f4ffc81eee109a9 |  |  |  |  |  |  |  |  |
| GHHHHHHEFDQVQYENTLKNFKIREQQFDNSWAAGFSMAALLNATKNTDTYNAHDIMRTLYPEVSEQDLPNCATFPNQMIEYGKSQGRDIHYQEGVPSYNQVDQLTKDNVGIMILAQSVSQNPNDPHLGHALAVVGNAKINDQEKLIYWNPWDTELSIQDADSSLLHLSFNRDYNWYGSMIGY | 0.683 | 50 | 0.831643 | In | 0.547 | S | -0.66 | S |
| >cadef9c2dbd3a8542a66bc885f31f15adc93c8d9 |  |  |  |  |  |  |  |  |
| GMARKVILFIAMSIDNYIADDQGAVDWLEKNVHGTESDDSYEKMYSKIDTVIMGRTTYEQVTQKLSPEKYVYADRQTYIVTSHLGEDTDKIKYWKQSPVELVKRIQKEKGKDVWIVGGAKIIDPLVQANLIDTYILTTVPIFLGSGIRLFDRLEEQVPVRLIDVYQKNELVYSIYQRG | 0.49 | 70 | 0.693465 | In | 0.818 | S | -0.58 | S |
| >9a690d468f7631c85f4425d4c74d90c524d15781 |  |  |  |  |  |  |  |  |
| MPDMPPTETNAIQDRLPRTTNSVEDTMALGARIAQGLSPGAVVALYGDLGTGKTHFVKGVAQGLGLPPAEVRSPTFTILAVHDDGDRPLYHFDAYRVQTPDEFVELGFETYVHGDGLTCIEWAGRVADLLPADTVPLQFHHVAPSTRRITLGAPLEHHHHHH | 0.655 | 70 | 0.664769 | S | 0.594 | S | -0.91 | S |
| >6de051eed9d8c1e8c7cd7d1ccc6204865bb21ec1 |  |  |  |  |  |  |  |  |
| MSLRVFVGEFLCGGGMASTHEDQISSSLLREGLAMWRALVTDFAEWAQVVTPIDPRLNLRVDRMPDSVVCIPLRSGENVREQWLTIAKSCDIALVVAPETDDELGGMIQTFREAGVDVLATDLATLRMASDKWFTAKWLMEHAIPTPQTWAMESNLTASEARRSNGIGPIGLDAKRWVRKPRDGCGSDSIVVFDDWKSACSTMPSNNLVQAWIEGRPASVLVLGGAIEVSDLVICPAVWQHCRLREDDSGNAIQTDVCTVCYTGGSGPIETELQSRVVSLAEQVTRALPEPLRGFLGIDVVLGDRMEDDCVIEINPRLTTSYIGIRQMINENLTSIWNPSAVRNSDTSGERRITGRQLRVRTNQIRWTSEGDVQIEPPLDGDSEGHHHHHH | 0.563 | 39 | 0.791744 | In | 0.963 | In | -0.25 | S |
| >df9c946f1c71675e8e724111c03cf0299b489782 |  |  |  |  |  |  |  |  |
| APDTSVSNKQNFSTDVIYQIFTDRFSDGNPANNPTGAAFDGTCTNLRLYCGGDWQGIINKINDGYLTGMGVTAIWISQPVENIYSIINYSGVNNTAYHGYWARDFKKTNPAYGTIADFQNLIAAAHAKNIKVIINFAPNHTSPASSDQPSFAENGRLYDNGTLLGGYTNDTQNLFHHNGGTDFSTTENGIYKNLYDLADLNHNNSTVDVYLKDAIKMWLDLGIDGIRMDAVKHMPFGWQKSFMAAVNNYKPVFTFGEWFLGVNEVSPENHKFANESGMSLLDFRFAQKVRQVFRDNTDNMYGLKAMLEGSAADYAQVDDQVTFIDNHDMERFHASNANRRKLEQALAFTLTSRGVPAIYYGTEQYMSGGTDPDNRARIPSFSTSTTAYQVIQKLAPLRKSNPAIAYGSTQERWINNDVLIYERKFGSNVAVVAVNRNLNAPASISGLVTSLPQGSYNDVLGGLLNGNTLSVGSGGAASNFTLAAGGTAVWQYTAATATPTIGHVGPMMAKPGVTITIDGRGFGSSKGTVYFGTTAVSGADITSWEDTQIKVKIPAVAGGNYNIKVANAAGTASNVYDNFEVLSGDQVSVRFVVNNATTALGQNVYLTGSVSELGNWDPAKAIGPMYNQVVYQYPNWYYDVSVPAGKTIEFKFLKKQGSTVTWEGGSNHTFTAPSSGTATINVNWQP | 0.528 | 13 | 0.649759 | In | 0.557 | S | 1.65 | In |
| >d40409e7b21d483dccbe5cd590d207cc886b0141 |  |  |  |  |  |  |  |  |
| MSLNVMQENQIKLIEHIKQAVVQAVGLEEAEVPEILLEVPKDKKHGDYSTNIAMQLARVAKKAPRQIAESIVPELKKDNKLIKEVEIAGPGFINFYLDNAYLTDLVPVILTEDKQYGESDFGKGEKFQIEFVSANPTGDLHLGHARGAAIGDSLANIMKMAGFDVSREYYINDAGNQINNLVLSAEARYFEALGLDSEFPEDGYRGADIISLGKDLAAKYGDKYVHTSEEERRSVFRVDALAFETGKLRADLEEFRVSFDEWFSETSLYEENKVLPALERLRENGYIYEQDGATWLRTTDFEDDKDRVLIKSDGSYTYFLPDIAYHLNKLERGFDVLIDIWGADHHGYIPRMRAAIEALGYSPNQLEVEIIQLVHLFEDGVQVKMSKRTGKSVTMRDLIEEVGLDATRYFFAMRSSDTHMNFDMSLAKSTSNDNPVYYVQYAHARISSILRSGKEQGLEVTKDADMSLLQTEAEYDLLKVLGEFADVVAEAATKRAPHRIVRYLNDLASSFHRFYNSNKVLDMDNLEVTKARLALIKTAQITLRNGLTLLGVSAPEKEGHHHHHH | 0.646 | 72 | 0.5 | S | 0.669 | S | -1.09 | S |
| >7e88b6d269390748de510a4859dd44e56d45328b |  |  |  |  |  |  |  |  |
| GMSGQKPVKPSADGLLASARAIKSKGPAPVHLWNPPFNGDIDMRIARDGTWFYQGTPINRPAMVRLFSSILKREEDRFYLVTPVEKVGIRVDDAPFVAVDVEVAGQGRKQVLTFTTHVGDSAVAGEGNPIRMAQDPATGEPAPYVHVRAGLEALIDRKSFYRLMDLGEIEDGWFGLWSSGSFFPLMTVEELERG | 0.644 | 49 | 0.52931 | In | 0.57 | S | 0.92 | In |
| >994aa85913e2180280fe35ce6f6a47f9ca926b2f |  |  |  |  |  |  |  |  |
| MTARQRRVLHLLVDEYIQTKAPVPSARIAEGLGLSPALARYELIALEEMGYLTKPHASAGRVPTRQGFRQYSLSLLPPRPLPEATRRRLERALEGAREPEAFLVKVAVGLSGYPALLRLQPRRAPKLLQVHLSPLPEGTLAVLVLEGGRVKEVRLPLVLPQETLRRAEEALTGPLETLPAAPKGLEDLFAHLSRALASGFALRYREGLSEALKEPEAKDPGFLERLVALYEEGGEDLLTPPGRVDVRVGEVEGLALVQAGFQKGEWLGELTLIGPLRMRYAEALSVAFSLSQVYTGQHAD | 0.733 | 57 | 0.851615 | S | 0.634 | S | 0.79 | In |
| >e3e0a400c8dee6b367ac9014e1368f861531d727 |  |  |  |  |  |  |  |  |
| MANDTPFSALWQRLLTRGWQPVEASTVDDWIKRVGDGVILLSSDPRRTPEVSDNPVMIAELLREFPQFDWQVAVADLEQSEAIGDRFNVRRFPATLVFTDGKLRGALSGIHPWAELLTLMRSIVDTPAAQETVQLEHHHHHH | 0.323 | 35 | 0.527043 | S | 0.533 | S | -1.12 | S |
| >9f8a1d531459bf2630e1f7f4aa8988f1cbcac353 |  |  |  |  |  |  |  |  |
| MTENGRYEYIVIGSEAAGVGLVRELTAAGKKVLAVDKSKEKIELLEDEGFDAVIADPTDESFYRSLDLEGVSAVLITGSDDEFNLKILKALRSVSDVYAIVRVSSPKKKEEFEEAGANLVVLVADAVKQAFMDKIKKMETL | 0.324 | 100 | 0.815123 | S | 0.82 | S | -1.65 | S |
| >ddaacc66e442f32c7e3daf48f87d5ba997743097 |  |  |  |  |  |  |  |  |
| MPEARTSTPRERYRTQVRAEIKDHAWEQIATAGASALSLNAIAKRMGMSGPALYRYFDGRDELITELIRDAYRSQADSLRAAAASGADLAGLAHALRAWALDDPQRYFLIFGTPVPGYRAPDDITEIAAETMAVIVDACAALPPSDGTDGAFDAHLDTHRQWAGDRPAPSSALHRALSFWSRLHGVLSLELAGQFTGMGFDSALLFEAELKDLLGP | 0.426 | 15 | 0.913436 | In | 0.662 | S | -0.62 | S |
| >241f6084fc17204e93117c04743844e0c8656c7e |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMTLDLNKLRFGSELIKRGFSAMTKGGVIMDVTTADQAKIAEAAGAVAVMALERVPADIRAAGGVARMADPMKIKEIMDAVSIPVMAKVRIGHISEAYVLEKIGVDMLDESEVLTPADPFFHLYKKNLTVPVVSGARNLPEAVRRIFEGAAMIRTKGEAGTGNIIEAVRHIRKVNEEISVLKRMSDEQLRAVASNISASYFVLREEASKDLMGVEGKLSYDSAYAGMGRSRIEREILAILRQIRRMGRLPVVNFAAGGVATPADGALMMELGADGVFVGSGIFKSPNPEKMARSIVEAVENYRDYDVVEKASEGLQGMPGVDIESIPKDMRLQERGW | 0.527 | 62 | 0.938201 | S | 0.524 | S | 0.91 | In |
| >9e20d7c2e4a85b24851aa709e0fcc0f3177c7dde |  |  |  |  |  |  |  |  |
| MKGSSTLKKVVISSTFATGLFLATQYDTADAALGDQTLRKGQSHPDVKELQEALKKKGFFNYHTSTGYFGSITEDAVREFQMKHGLQVDGIAGPQTLNALLSQMNGNNGGQQTSSSAPNSTSNSTILRFGSSGQAVRDLQEKLKAKGYYNHSITGQYGRITTEAVREFQRANRLTVDGIAGPQTLAALTNQAPAASAPQYNAPVQQTTVLRQGSRGDAVRDLQRSLKDLGYYKSSIDGIFGAGTTTAVREFQRKMGLTVDGVAGPQTLNALHVNPTPNTSNGQSSSSGGNTASSGNRGATITNIVANASELIGTPYVWGGTTPRGFDCSGFVQYVFAQQGVSIPRTVAQMWNAGTSVSQPSVGDIVFFDTTGGPSHNGIYIGNNQFIHSGSSTGVTIASMNNSYWASRYLGAKRLY | 0.596 | 33 | 0.771917 | In | 0.837 | In | 2.97 | In |
| >744e04b36943d75bbdaa79c37ed33c76eb74ad65 |  |  |  |  |  |  |  |  |
| MAHHHHHHMDWTDRVLLEDDNDMGKSIVSHHVLMNCSQRSNIKDSNVQTLSTEMLHWDDYREAHGINDGTPKMADTFQNACEPLFQGHVCRSGGSTKRLLSVATKPVLGEGGDRTFCSEMQHWDDYRVKNNIQDGSPAMQCLFRQFDGHDMFILDSGWKLLTLKQMCITSTRQAYGASVNQRVSEMVRWEESQNQQGINCFPASGSAEAVSAITPYNSG | 0.409 | 43 | 0.591349 | In | 0.767 | In | 0.13 | In |
| >724d7cac417486bf12025b3c86eb9c70067888a1 |  |  |  |  |  |  |  |  |
| MSLVAGDDGGSRIPAADSADAGFARDMSVHHQQAVEMSYIVRDRTDDEEVRRLAYDIAQTQANQRGMMIGWLDLWALPKVSSDPPMTWMGMGDAPSAGEGSLMPGMATDAEMKKLGTLDGKQAEVYYLQLMTEHHRGGVHMAKGCVERCTVGVEKRLARGMVESQESEIRLMADLLAERGAKPRSEGHHHHHH | 0.522 | 48 | 0.692246 | In | 0.531 | In | -0.62 | S |
| >7e4bb54b068567037cc0458beae272b1a8ac1607 |  |  |  |  |  |  |  |  |
| MAAASVTPPGSLELLQPGFSKTLLGTKLEAKYLCSACRNVLRRPFQAQCGHRYCSFCLASILSSGPQNCAACVHEGIYEEGISILESSSAFPDNAARREVESLPAVCPSDGCTWKGTLKEYESCHEGRCPLMLLEHHHHHH | 0.809 | 95 | 0.616424 | In | 0.611 | In | 1.03 | In |
| >d0c6608233302761dda7cba4869b10f42553240c |  |  |  |  |  |  |  |  |
| GSHMLQSTPQNLVSNAPIAETAMGIAEPIGAGSEFHGNPDDDLQARLNTLKKQT | 0.642 | 92 | 0.801825 | S | 0.528 | S | 0.62 | In |
| >7431cafd892da56da675e07674b4c8d096c1ff61 |  |  |  |  |  |  |  |  |
| MAPSAPAKTAKALDAKKKVVKGKRTTHRRQVRTSVHFRRPVTLKTARQARFPRKSAPKTSKMDHFRIIQHPLTTESAMKKIEEHNTLVFIVSNDANKYQIKDAVHKLYNVQALKVNTLITPLQQKKAYVRLTADYDALDVANKIGVI | 0.215 | 89 | 0.667235 | S | 0.775 | In | -2.84 | S |
| >21d40341fba39edfe79be085d7b80764e24a7361 |  |  |  |  |  |  |  |  |
| MRGSRSGHGNGGGNSNSGGGSNSSVAAPMAFGFPALAAPGAGTLGISVSGEALSAAIADIFAALKGPFKFSAWGIALYGILPSEIAKDDPNMMSKIVTSLPAETVTNVQVSTLPLDQATVSVTKRVTDVVKDTRQHIAVVAGVPMSVPVVNAKPTRTPGVFHASFPGVPSLTVSTVKGLPVSTTLPRGITEDKGRTAVPAGFTFGGGSHEAVIRFPKESGQKPVYVSVTDVLTPAQVKQRQDEEKRLQQEWNDAHPVEVAERRS | 0.722 | 94 | 0.730455 | S | 0.711 | In | 2.64 | In |
| >f8d4b38ca9f74c76c52757e5820a4929cc7117b8 |  |  |  |  |  |  |  |  |
| MSLGPDYVTLNLAAEKVDLAALEAKAGEYLNNWLVDAGFQEIKVKPVSTKRRSVLVSRRVAEIRIRPLEVSALSRRLCIWADIVDASGVLLNSAPVWFDVSAMGEVWTPSTDAEKGTAVDVHPLKREFIDVAAAGIEPASRREIEGKEFSRRVESGQPITKDVLRAIPEIKNGDIVFVEVRVGTVFLRSRAEAMHDAYIGDRIKLKSVSSGETMLGVVLSAGRVWIGSEGHHHHHH | 0.684 | 80 | 0.576 | In | 0.725 | S | 0.55 | In |
| >0db030d15efddc33aa0aad788631468339307fc3 |  |  |  |  |  |  |  |  |
| MPNWGGGKKCGVCQKAVYFAEEVQCEGSSFHKSCFLCMVCKKNLDSTTVAVHGDEIYCKSCYGKKYGPKGKGKGMGAGTLSTDKGESLGIKYEEGQSHRPTNPNASRMAQKVGGSDGCPRCGQAVYAAEKVIGAGKSWHKSCFRCAKCGKSLESTTLADKDGEIYCKGCYAKNFGPKGFGFGQGAGALIHSQ | 0.65 | 100 | 0.857038 | S | 0.507 | S | 1.91 | In |
| >7bb6a8839736c7aac4f8e8b39dc84aeef8893115 |  |  |  |  |  |  |  |  |
| MTQDYELVVKGVRNFENKVTVTVALQDKERFDGEIFDLDVAMDRVEGAALEFYEAAARRSVRQVFLEVAEKLSEKVESYLQHQYSFKIENPANKHERPHHKYLLEHHHHHH | 0.709 | 99 | 0.938855 | S | 0.699 | S | -2.12 | S |
| >1f95d7032a18af786f57a1380d55436c4920d30a |  |  |  |  |  |  |  |  |
| AGWRGGWGIRRGLPVKIIWARLWRARHARRECSWSTGSIWSGWEWAQEQRRGSTGLFPGAAHLVSWFLQALKRSFEVEEVETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDSLSQRSPKASLRRVELSGPKAAEPVSRRTELSIDISSKQVENAGAIGPSRFGLKRAEVLGHKTPEPAPRRTEITIVKPQESAHRRMEPPASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLENSEPAPVSQLQSRLEPKPQPPVAEATPRSQEATEAAPSCVGDMADTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINTLFKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGVRMKLTVIDTPGFGDHINNENCWQPIMKFINDQYEKYLQEEVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFMKRLSKVVNIVPVIAKADTLTLEERVHFKQRITADLLSNGIDVYPQKEFDEDSEDRLVNEKFREMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTTHCEFAYLRDLLIRTHMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEEKEPEAPEM | 0.64 | 86 | 0.756426 | In | 0.936 | In | 1.71 | In |
| >ab27b436c0c1c8961798a16905e05cc930d5caf7 |  |  |  |  |  |  |  |  |
| MRTSQYLLSTLKETPADAEVISHQLMLRAGMIRKLASGLYTWLPTGVRVLKKVENIVREEMNNAGAIEVSMPVVQPADLWQESGRWEQYGPELLRFVDRGERPFVLGPTHEEVITDLIRNELSSYKQLPLNFYQIQTKFRDEVRPRFGVMRSREFLMKDAYSFHTSQESLQETYDAMYAAYSKIFSRMGLDFRAVQADTGSIGGSASHEFQVLAQSGEDDVVFSDTSDYAANIELAEAIAPKEPRAAATQEMTLVDTPNAKTIAELVEQFNLPIEKTVKTLLVKAVEGSSFPQVALLVRGDHELNEVKAEKLPQVASPLTFATEEEIRAVVKAGPGSLGPVNMPIPVVIDRTVAAMSDFAAGANIDGKHYFGINWDRDVATPEVADIRNVVAGDPSPDGQGRLLIKRGIEVGHIFQLGTKYSEALKASVQGEDGRNQILTMGCYGIGVTRVVAAAIEQNYDERGIVWPDAIAPFQVAILPMNMHKSFRVQELAEKLYSELRAQGIEVLLDDRKERPGVMFADMELIGIPHTIVLGDRNLDNDDIEYKYRRNGEKQLIKTGDIVEYLVKQIKG | 0.537 | 55 | 0.589371 | In | 0.575 | S | -0.4 | S |
| >0be09ee401dcfcde826e67952ea4e7f105cbd2c2 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMGHHHHHHSHMGHHHHHHSHMGHHHHHHSHMGHHHHHHSHMGHHHHHHSHMGHHHHHHSHMAAAAGFNWDDADVKKRWDAFTKFGAATATEMTGKNFDKWLKDAGVLDNKAITGTMTGIAFSKVTGPKKKATFDETKKVLAFVAEDRARQSKKPIQDELDAITEKLAKLEAPSVGGAAKANAAGVYSRLTDHTKYTGAHKERFDAEGKGKGKSGRADTTENTGYVGAYKNKDSYDKTHGK | 0.368 | 100 | 0.521042 | S | 0.582 | S | 1.13 | In |
| >e0df8d57e103501a6a2d784a62a3aaadb7c829ea |  |  |  |  |  |  |  |  |
| MAHHHHHHMGTLEAQTQGPSMTKPDLASLEKTIEKAFDERDGINTATRGEVREAVEQSLILLDRGEVRVAEKQADGNWHVNQWLKKAVLLSFRLNPMEVIKGGPGQSSWWDKVPSKFDGWTANEFEKAGFRAVPNCIVRHSAYIAPNAILMPSFVNLGAYVDKGAMIDTWATVGSCAQIGKNVHLSGGVGIGGVLEPMQAGPTIIEDNCFIGARSEVVEGCIVREGSVLGMGVFIGKSTKIVDRATGEVFYGEVPPYSVVVAGTMPGKNVPGENWGPSLYCAVIVKRADEKTRSKTSINELLRD | 0.448 | 75 | 0.666965 | In | 0.7 | In | 1.12 | In |
| >8114cddb15a27136b6f29bd77fa177de4de71847 |  |  |  |  |  |  |  |  |
| MIQSQINRNIRLDLADAILLSKAKKDLSFAEIADGTGLAEAFVTAALLGQQALPADAARLVGAKLDLDEDSILLLQMIPLRGCIDDRIPTDPTMYRFYEMLQVYGTTLKALVHEKFGDGIIGAINFKLDVKKVADPEGGERAVITLDGKYLPTKPF | 0.496 | 83 | 0.886978 | S | 0.654 | S | -0.78 | S |
| >f5ad6e1c85696b05e9ff3f65fbc3d388a83fb469 |  |  |  |  |  |  |  |  |
| MAHHHHHHMETRKVTECTPSPEEEFRSGTSLKYPDEERTRQQLTLAFPSIDADVIEEMAFLVGRKRYTIDKVVYMLRLIEESMKLDNPANKGLVNSGESEGQEVQVLQEGTDDTSTGHSLPLQSSQPQEGLDQTTMKQQRDLPEGNRGGVEELQPFMLSYSNSHSANFVGVKLFFTSMTGDRRIRDHCRRAETLLYLKRITYEPVNVADSPTLQRNLREMYAACTGKRGAPPLPALFVGTSYVGNYEEMQEMEDDGTLMDTLEHLGYKHEIQSSVVTR | 0.653 | 72 | 0.838294 | In | 0.861 | In | -0.54 | S |
| >22a7e156828bd65f45197c6d3b8cc585886a703c |  |  |  |  |  |  |  |  |
| MAHHHHHHMDVARFGLRAAADPAGRYGDVLASSSATVHDASATTGDSPFIFLREPFRHCTEKHSCALLVCEVAVGEMYSCPTTAHAPRRPAADFLAKYDSCAYVDEANGPVVAVYFRQQVLPRLLLQCVVDPQLQPCPAHPDRPVEYYVMESHAFACSRCVVMGAYKGKEVTPIEEAAVMARAGLAEVERTVSALKESMLAYANQLQNEESSMPTAPRRVEAEREIDRLQKETEERVRRIRRQVQLEDEAQLSRINAERTEVQAALEAVDGLGERLTFAMQQRTPVAAVNALQHIQQERQVEQLMARAQERVPSAPLELVLPLDGPPAALPPRSSPTSRVRSKGSPVVVGLNESRLPEASADDGRESRVPGSAAPHASRAPSTRHTKHASPLPGSLYAQYLAIADADGKKAAAEGSSRIEQPSLDLSTAVFASRPRPVPVPASDDRDGGGEMSALSAKEALTRGWALLRRGDVAAAHRAWTAVCRVHGTNDVMGTKAHAYIAEAIEKDYAAAAQWYARSLQLDPQDRMTAYNYGVLLEALLDKPQEALQLYDRAAALGDAVAGARARELRSRLVASTSRQ | 0.448 | 48 | 0.596261 | In | 0.985 | In | 0.26 | In |
| >4f2e3be5453b4fce581ca3860f16971a24e1256f |  |  |  |  |  |  |  |  |
| SKRYFVTGTDTEVGKTVASCALLQAAKAAGYRTAGYKPVASGSEKTPEGLRNSDALALQRNSSLQLDYATVNPYTFAEPTSPHIISAQEGRPIESLVMSAGLRALEQQADWVLVEGAGGWFTPLSDTFTFADWVTQEQLPVILVVGVKLGCINHAMLTAQVIQHAGLTLAGWVANDVTPPGKRHAEYMTTLTRMIPAPLLGEIPWLAENPENAATGKYINLALL | 0.716 | 42 | 0.710136 | In | 0.828 | S | 0.46 | In |
| >bccbdf84cb11877fd1d23b669e032e8bee4542d1 |  |  |  |  |  |  |  |  |
| MKIRSQVGMVLNLDKCIGCHTCSVTAKNVWTSREGVEYAWFNNVETKPGQGFPTDWENQEKYKGGWIRKINGKLQPRMGNRAMLLGKIFANPHLPGIDDYYEPFDFDYQNLHTAPEGSKSQPIARPRSLITGERMAKIEKGPNWEDDLGGEFDKLAKDKNFDNIQKAMYSQFENTFMMYLPRLCEHCLNPACVATCPSGAIYKREEDGIVLIDQDKCRGWRMCITGCPYKKIYFNWKSGKSEKCIFCYPRIEAGQPTVCSETCVGRIRYLGVLLYDADAIERAASTENEKDLYQRQLDVFLDPNDPKVIEQAIKDGIPLSVIEAAQQSPVYKMAMEWKLALPLHPEYRTLPMVWYVPPLSPIQSAADAGELGSNGILPDVESLRIPVQYLANLLTAGDTKPVLRALKRMLAMRHYKRAETVDGKVDTRALEEVGLTEAQAQEMYRYLAIANYEDRFVVPSSHRELAREAFPEKNGCGFTFGDGCHGSDTKFNLFNSRRIDAIDVTSKTEPHP | 0.479 | 60 | 0.724678 | In | 0.542 | S | 0.7 | In |
| >f0d7977e58a10f79c91a05a866817c9e21ab1ae5 |  |  |  |  |  |  |  |  |
| MSLTLYHSPMSTASRFVRLILAEYGFQTDLVEEQPWERRREFLALNPAGTLPVYLDDNMRSLSGPYVLAEFLDETHGVLKRDRRLLAEDPFQRAEIRRLTEWFLQKMENDVTRPLVRERVYKLQMTAAQGGGPPDSKLLRTARNNIRQHIKYLEWLAGSRTWLAGDRLSYADLAAAAGVSVLDYLGEINWLEAPIAKEWYQRVKSRPSFRPFLSERIPRLAPSSHYADLDFEGHHHHHH | 0.749 | 35 | 0.892877 | In | 0.67 | In | 0.56 | In |
| >f6f6266f8ac24a635c44e2df2dc1192ad0378418 |  |  |  |  |  |  |  |  |
| SRGLSSLFTVVPCLSCHTAAPGMSASTSGSGPEPKPQPQPVPEPERGPLSEQVSEAVSEAVPRSEPVSETTSEPEPGAGQPSELLQGSRPGSESSSGVGAGPFTKAASEPLSRAVGSATFLRPESGSLPALKPLPLLRPGQAKTPLGVPMSGTGTTSSAPLALLPLDSFEGWLLKWTNYLKGYQRRWFVLGNGLLSYYRNQGEMAHTCRGTINLSTAHIDTEDSCGILLTSGARSYHLKASSEVDRQQWITALELAKAKAVRVMNTHSDDSGDDDEATTPADKSELHHTLKNLSLKLDDLSTCNDLIAKHGAALQRSLTELDGLKIPSESGEKLKVVNERATLFRITSNAMINACRDFLELAEIHSRKWQRALQYEQEQRVHLEETIEQLAKQHNSLERAFHSAPGRPANPSKSFIEGSLLTPKGEDSEEDEDTEYFDAMEDSTSFITVITEAKEDSRKAEGSTGTSSVDWSSADNVLDGASLVPKGSSKVKRRVRIPNKPNYSLNLWSIMKNCIGRELSRIPMPVNFNEPLSMLQRLTEDLEYHHLLDKAVHCTSSVEQMCLVAAFSVSSYSTTVHRIAKPFNPMLGETFELDRLDDMGLRSLCEQVSHHPPSAAHYVFSKHGWSLWQEITISSKFRGKYISIMPLGAIHLEFQASGNHYVWRKSTSTVHNIIVGKLWIDQSGDIEIVNHKTNDRCQLKFLPYSYFSKEAARKVTGVVSDSQGKAHYVLSGSWDEQMECSKVMHSSPSSPSSDGKQKTVYQTLSAKLLWKKYPLPENAENMYYFSELALTLNEHEEGVAPTDSRLRPDQRLMEKGRWDEANTEKQRLEEKQRLSRRRRLEACGPGSSCSSEEEKEADAYTPLWFEKRLDPLTGEMACVYKGGYWEAKEKQDWHMCPNIF | 0.661 | 85 | 0.970165 | S | 0.633 | S | 1.08 | In |
| >6a8097b7f71def4f023ffe95e90eacaf2f45b3fc |  |  |  |  |  |  |  |  |
| SFVPCGESAPDLAGFTLLMPAVSVGNVGQLAMDLIISTLNMSKIGYFYTDCLVPMVGNNPYATTEGNSTELSINAEVYSLPSRKLVALQLRSIFIKYKSKPFCEKLLSWVKSSGCARVIVLSSSHSYQRNDLQLRSTPFRYLLTPSMQKSVQNKIKSLNWEEMEKSRCIPEIDDSEFCIRIPGGGITKTLYDESCSKEIQMAVLLKFVSEGDNIPDALGLVEYLNEWLQILKPLSDDPTVSASRWKIPSSWRLLFGSGLPPALF | 0.629 | 49 | 0.556679 | S | 0.946 | In | 1.85 | In |
| >ba569e6737c98ac0dc565bf0cf03fbdf7348842b |  |  |  |  |  |  |  |  |
| AIASSSRKDHLGASSSEPLPVIIVGNGPSGICLSYLLSGYTPYTKPDAIHPHPLLQRKLTEAPGVSILDQDLDYLSEGLEGRSQSPVALLFDALLRPDTDFGGNMKSVLTWKHRKEHAIPHVVLGRNLPGGAWHSIEGSMVILSQGQWMGLPDLEVKDWMQKKRRGLRNSRATAGDIAHYYRDYVVKKGLGHNFVSGAVVTAVEWGTPDPSSCGAQDSSPLFQVSGFLTRNQAQQPFSLWARNVVLATGTFDSPARLGIPGEALPFIHHELSALEAATRVGAVTPASDPVLIIGAGLSAADAVLYARHYNIPVIHAFRRAVDDPGLVFNQLPKMLYPEYHKVHQMMREQSILSPSPYEGYRSLPRHQLLCFKEDCQAVFQDLEGVEKVFGVSLVLVLIGSHPDLSFLPGAGADFAVDPDQPLSAKRNPIDVDPFTYQSTRQEGLYAMGPLAGDNFVRFVQGGALAVASSLLRKETRKPP | 0.631 | 53 | 0.658101 | In | 0.568 | S | 1.44 | In |
| >1f954ac0f7f23641854c8b9298075431a536b621 |  |  |  |  |  |  |  |  |
| MKIITRGEAMRIHQQHPTSRLFPFCTGKYRWHGSAEAYTGREVQDIPGVLAVFAERRKDSFGPYVRLMSVTLNLEHHHHHH | 0.493 | 30 | 0.701872 | S | 0.578 | In | 0.57 | In |
| >c7ff829d744509ac4403e1b00f102d442659d9bd |  |  |  |  |  |  |  |  |
| GPGSMRNPHDDDELDALLDDCINTMDEQERRHEEEVKARDAAREAELEKGTADSNQSGELMGLLQALMNGENGDGNADPETLMNTLNEEITRVSSLIDSLPDASEEERASMTEVREIFDRLTKMSSTNEDDAADDNAMKSDETLAEAFKKYMADIEKTSGSSAGNAAASEIPRNTSSTEATTGTANAVEFEDVIAGLSGMVLDCLLDPGMLKIMKVMQRTYPRWLAANESSTSVNDLARYKKQYDVVNSICDLVGDGPIDRQDATKTSQLVSLTHEFASLGPLPPDLEKLDAEEEQCE | 0.756 | 90 | 0.558948 | S | 0.501 | In | -2.79 | S |
| >acb8636ec22fd6b8641b7c6eb4774f23d14c2860 |  |  |  |  |  |  |  |  |
| MSLKTASYAQSFSRAAKEYDAYAYLQQTVARELASWIEGMECESILDLGCGTGALWRALRFKPRFFTGVDLSMEMLDLHPQDPAIRLIQSDFNHPSLYEHSYDLIAASSSLQWSRDLAQSFDLIAKSAQNVAFAIFTSESLWEIHDYVDSHSPIPSKERIESLLKERFAGEFELKRYPLSFPSRVAMLSYLKGSGISGGRRLGFAQSKKLIQSAPFERLTFEVLFFVGKPLKADEGHHHHHH | 0.592 | 27 | 0.790767 | In | 0.577 | S | 0.48 | In |
| >a0288c4146f87fdbe59d59d7e44f0d0a9db34baf |  |  |  |  |  |  |  |  |
| MKQQLLIVDAYNMIGNWPELNHLKQTDRLPQARDELISMLTEYKKITGLNISLVFDAMYVPGNSKSYRQADLEIIWTSKDQTADSYIEKYAGEKQSRVLQVTVATSDQAEQWVIFSEGALRVPALELRHRVKTALKDVRHTAVRTQDLGAVRKSPWNDDQLSALDQYRQQLERNHVKHHHKLEHHHHHH | 0.506 | 65 | 0.672452 | S | 0.644 | S | -0.07 | S |
| >ed6abd911e48adaa700fcd1790a04a2947fd4b23 |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHVPRVGIIMGSDSDLPVMKQAAEILEEFGIDYEITIVSAHRTPDRMFEYAKNAEERGIEVIIAGAGGAAHLPGMVASITHLPVIGVPVKTSTLNGLDSLFSIVQMPGGVPVATVAINNAKNAGILAASILGIKYPEIARKVKEYKERMKREVLEKAQRLEQIGYKEYLNQKE | 0.136 | 83 | 0.649409 | S | 0.667 | S | 0.61 | In |
| >ef7b51f32618bd588af09760220d7c5d67371d17 |  |  |  |  |  |  |  |  |
| MAAADGDDSLYPIAVLIDELRNEDVQLRLNSIKKLSTIALALGVERTRSELLPFLTDTIYDEDEVLLALAEQLGTFTTLVGGPEYVHCLLPPLESLATVEETVVRDKAVESLRAISHEHSPSDLEAHFVPLVKRLAGGDWFTSRTSACGLFSVCYPRVSSAVKAELRQYFRNLCSDDTPMVRRAAASKLGEFAKVLELDNVKSEIIPMFSNLASDEQDSVRLLAVEACVNIAQLLPQEDLEALVMPTLRQAAEDKSWRVRYMVADKFTELQKAVGPEITKTDLVPAFQNLMKDCEAEVRAAASHKVKEFCENLSADCRENVIMSQILPCIKELVSDANQHVKSALASVIMGLSPILGKDNTIEHLLPLFLAQLKDECPEVRLNIISNLDCVNEVIGIRQLSQSLLPAIVELAEDAKWRVRLAIIEYMPLLAGQLGVEFFDEKLNSLCMAWLVDHVYAIREAATSNLKKLVEKFGKEWAHATIIPKVLAMSGDPNYLHRMTTLFCINVLSEVCGQDITTKHMLPTVLRMAGDPVANVRFNVAKSLQKIGPILDNSTLQSEVKPILEKLTQDQDVDVKYFAQEALTVLSLA | 0.507 | 86 | 0.509563 | In | 0.701 | In | -1.02 | S |
| >bd4f9e7b7a11b32ca0d303cbb0c8604da7b69b1d |  |  |  |  |  |  |  |  |
| AIAFGLLSSLANTFWVERHPPYRVVFLGLKGSGKSTLVRAIRKRLAGEVPSSNAHPVAAVAQRWVAEPVHPDSNGSVDGQRERYIPTVGLDRFSVTSAANGPEVTWVLLDLGGDASFRFLWGRYLQQADAVVWVIDGSDATRIEECIAALQETCEHLAPSAAASVAEAGCSRHGIADAGSKHSQPSPKRPLILVINRLHGGQFEDAAPHWEEALTRLIEGVTKKGAVGPVALQHVDALTGYGVHCVVEWLLANRPTLPSA | 0.566 | 46 | 0.7215 | S | 0.752 | In | 0.97 | In |
| >23e61207d9e9c9134a4dbdb5e2208de796a605a8 |  |  |  |  |  |  |  |  |
| PKLQEAPRPKSHWDYLLEEMQWMATDFAQERRWKVAAAKKLVRTVVRHHEEKQLREERGKKEEQSRLRRIAA | 0.792 | 32 | 0.840845 | S | 0.687 | In | -2 | S |
| >f14ba76ae73342cf10483904a4e2332f4d817e61 |  |  |  |  |  |  |  |  |
| GQSTGQVTLGVLTDMSSVYADSAGKGSVAAVQLAIEDVGGKALGQPVKLVSADYQMKTDVALSIAREWFDRDGVDAIFDVVNSGTALAINNLVKDKKKLAFITAAAADQIGGTECNGYGIGFLYNFTSIVKTVVQAQLAKGYKTWFLMLPDAAYGDLMNAAIRRELTAGGGQIVGSVRFPFETQDFSSYLLQAKASGAQLIVSTSGGAANINIMKQAREFGLPSKTQKVGGMIDILTDVKSAGLRVMQGQEYATSFYWNMDDRTRAFAKRFYAKMGKMPTNNQAGGYSAALQYLKAVNAIGSKDPQKVFAYLKTIKFDDAVTRHGTLRPGGRLVRDMYLVRAKKPEDQKGDWDYYDVVATIGPEQAFGPLSESRCAMDK | 0.568 | 35 | 0.64079 | In | 0.918 | In | 1.33 | In |
| >a5f395e5b2a924ad47c5443782258364867f0b21 |  |  |  |  |  |  |  |  |
| MGGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSETPTKPKAAQTEKKTEKKPENSNSEAAKKALNDYIWGLQYDKLNILTHQGEKLKNHSSREAFHRPGEYVVIEKKKQSISNATSKLSVSSANDDRIFPGALLKADQSLLENLPTLIPVNRGKTTISVNLPGLKNGESNLTVENPSNSTVRTAVNNLVEKWIQNYSKTHAVPARMQYESISAQSMSQLQAKFGADFSKVGAPLNVDFSSVHKGEKQVFIANFRQVYYTASVDSPNSPSALFGSGITPTDLINRGVNSKTPPVYVSNVSYGRAMYVKFETTSKSTKVQAAIDAVVKGAKLKAGTEYENILKNTKITAVVLGGNPGEASKVITGNIDTLKDLIQKGSNFSAQSPAVPISYTTSFVKDNSIATIQNNTDYIETKVTSYKDGALTLNHDGAFVARFYVYWEELGHDADGYETIRSRSWSGNGYNRGAHYSTTLRFKGNVRNIRVKVLGATGLAWEPWRLIYSKNDLPLVPQRNISTWGTTLHPQFEDKVVKDNTD | 0.53 | 64 | 0.5 | S | 0.555 | S | 2.42 | In |
| >e79eb49114f7f46f5750b25ef0ccee1f76a2e490 |  |  |  |  |  |  |  |  |
| MDQTAEEKMVRERIRKKVNEVSSASQSLLSPVQDHINFTLQKAYFKCAYECFDRTRTHAEISRCAESCSVPITNAQNYFDNEMSVFQERLNRSLVVCQDKFEVAKQQKTRSEAVNDLEHCVNQTVDEAVKTLPNLVSRMKKALSITD | 0.589 | 91 | 0.805695 | In | 0.75 | In | 0.03 | In |
| >36a08ccc3f7a2e216a098bcb2a8907075fd462a8 |  |  |  |  |  |  |  |  |
| MNTDQQKVSEIFQSSKEKLQGDAKVVSDAFMMMASQDKDGKTTDADESEKHNYQEQYNKLKGAGHKKE | 0.773 | 100 | 0.766734 | S | 0.568 | S | -0.52 | S |
| >2679f5e9a7668df4da380a656859bed675e54604 |  |  |  |  |  |  |  |  |
| MQGGRFMGNKNLIITIEREYGSGGRIVGKKLAEELGIHFYDDDILKLASEKSAVGEQFFRLADEKAGNNLLYRLGGGRKIDLHSKPSPNDKLTSPENLFKFQSEVMRELAESEPCIFVGRAAGYVLDQDEDIERLIRIFVYTDKVKKVQRVMEVDCIDEERAKRRIKKIEKERKEYYKYFTGSEWHSMKNYDLPINTTKLTLEETAELIKAYIRLKGFMD | 0.471 | 92 | 0.760719 | In | 0.574 | S | 0.34 | In |
| >998559c5996e6071efe7662c59eb61757423152f |  |  |  |  |  |  |  |  |
| TLNESLQTEKFDFGTMVQWAYDHKYAEESKIAYEYALAAGSDSNARAFLATNSQAKHVKDCATMVRHYLRAETQALSMPAYIKARCKLATGEGSWKSILTFFNYQNIELITFINALKLWLKGIPKKNCLAFIGPPNTGKSMLCNSLIHFLGGSVLSFANHKSHFWLASLADTRAALVDDATHACWRYFDTYLRNALDGYPVSIDRKHKAAVQIKAPPLLVTSNIDVQAEDRYLYLHSRVQTFRFEQPCTDESGEQPFNITDADWKSFFVRLWGRLDLIDEEEDSEEDGDSMRTFTCSARNTNAVD | 0.478 | 39 | 0.725185 | In | 0.91 | In | -0.1 | S |
| >b3ae5092b198371b2586318c1b61307601ce5945 |  |  |  |  |  |  |  |  |
| SNAMVAKQLSIFLENKSGRLTEVTEVLAKENINLSALCIAENADFGILRGIVSDPDKAYKALKDNHFAVNITDVVGISCPNVPGALAKVLGFLSAEGVFIEYMYSFANNNVANVVIRPSNMDKCIEVLKEKKVDLLAASDLYKL | 0.657 | 97 | 0.954119 | S | 0.607 | S | 0.64 | In |
| >cb425b0f9353ad20800dab5bf4fd4dd0386165d0 |  |  |  |  |  |  |  |  |
| ARTKQTARKSTGGKAPRKQLRERLVYEVRQKCRNIEDICISCGSLNVTLEHPLFVGGMCQNCKNCFLECAYQYDDDGYQSYCTICCGGREVLMCGNNNCCRCFCVECVDLLVGPGAAQAAIKEDPWNCYMCGHKGTYGLLRRREDWPSRLQMFFANNHD | 0.739 | 72 | 0.817384 | In | 0.771 | In | 1.45 | In |
| >73c8bd46a3eacc345d17a0dc3d1c38154b7868bd |  |  |  |  |  |  |  |  |
| MAGDPMTNITLSTQHYRIHRSDVEPVKEKTTEKDIFAKSITAVRNSFISLSTSLSDRFSLHQQTDIPTTHFHRGNASEGRAVLTSKTVKDFMLQKLNSLDIKGNASKDPAYARQTCEAILSAVYSNNKDQCCKLLISKGVSITPFLKEIGEAAQNAGLPGEIKNGVFTPGGAGANPFVVPLIASASIKYPHMFINHNQQVSFKAYAEKIVMKEVTPLFNKGTMPTPQQFQLTIENIANKYLQNASLEHHHHHH | 0.358 | 81 | 0.749025 | S | 0.812 | In | 1.95 | In |
| >aff764734403f9390147a1400b90fb77b1443c1a |  |  |  |  |  |  |  |  |
| MIMEELAKKIEEEILNHVREPQIPDREVNLLDFGARGDGRTDCSESFKRAIEELSKQGGGRLIVPEGVFLTGPIHLKSNIELHVKGTIKFIPDPERYLPVVLTRFEGIELYNYSPLVYALDCENVAITGSGVLDGSADNEHWWPWKGKKDFGWKEGLPNQQEDVKKLKEMAERGTPVEERVFGKGHYLRPSFVQFYRCRNVLVEGVKIINSPMWCIHPVLSENVIIRNIEISSTGPNNDGIDPESCKYMLIEKCRFDTGDDSVVIKSGRDADGRRIGVPSEYILVRDNLVISQASHGGLVIGSEMSGGVRNVVARNNVYMNVERALRLKTNSRRGGYMENIFFIDNVAVNVSEEVIRINLRYDNEEGEYLPVVRSVFVKNLKATGGKYAVRIEGLENDYVKDILISDTIIEGAKISVLLEFGQLGMENVIMNGSRFEKLYIEGKALLK | 0.633 | 84 | 0.546993 | S | 0.635 | S | 0.74 | In |
| >089d79f8660cc0f5f65e7cbfffef68b5567e54b6 |  |  |  |  |  |  |  |  |
| VDICNHALLVGYGRVGSLLGEKLLASDIPLVVIETSRTRVDELRERGVRAVLGNAANEEIMQLAHLECAKWLILTIPNGYEAGEIVASARAKNPDIEIIARAHYDDEVAYITERGANQVVMGEREIARTMLELLETPPAGEVVTR | 0.566 | 74 | 0.61153 | In | 0.732 | S | -1.46 | S |
| >a59bbe72688a461e0e420888cadbf6644d31caf8 |  |  |  |  |  |  |  |  |
| MAHHHHHHMRRCLTPAGAWVSTWRRVTTVSRAVGYNPSHCPPLTETDANKTTSATSTAAPVAPTSEDYRALLLDLLLYRRETLTPVMEALRLERDEVETKMQQLDTHVRELSSIRNELRQLAEAMLDAERTRLRDFVMEPSNPPAAESTTAAQAAAQSEEVEEIVL | 0.187 | 86 | 0.618812 | In | 0.844 | In | -1.16 | S |
| >5a43969502438d6de1698b0d782e02583eb6d48d |  |  |  |  |  |  |  |  |
| MASDKFPVAENPSSSFKYESAVQYRPAPDSYLNPCPQAGRIVKETYTGINGTKSLNVYLPYGYDPNKKYNIFYLMHGGGENENTIFSNDVKLQNILDHAIMNGELEPLIVVTPTFNGGNCTAQNFYQEFRQNVIPFVESKYSTYAESTTPQGIAASRMHRGFGGFSMGGLTTWYVMVNCLDYVAYFMPLSGDYWYGNSPQDKANSIAEAINRSGLSKREYFVFAATGSEDIAYANMNPQIEAMKALPHFDYTSDFSKGNFYFLVAPGATHWWGYVRHYIYDALPYFFHELEHHHHHH | 0.364 | 19 | 0.704277 | In | 0.756 | In | 0.97 | In |
| >7ff43708286f96ce3c7e975249a7866db9b47173 |  |  |  |  |  |  |  |  |
| MKFTNLTAKEFGAFTDSMPYSHFTQTVGHYELKLAEGYETHLVGIKNNNNEVIAACLLTAVPVMKVFKYFYSNRGPVIDYENQELVHFFFNELSKYVKKHRCLYLHIDPYLPYQYLNHDGEITGNAGNDWFFDKMSNLGFEHTGFHKGFDPVLQIRYHSVLDLKDKTADDIIKNMDGLRKRNTKKVKKNGVKVRFLSEEELPIFRSFMEDTSESKAFADRDDKFYYNRLKYYKDRVLVPLAYINFDEYIKELNEERDILNKDLNKALKDIEKRPENKKAHNKRDNLQQQLDANEQKIEEGKRLQEEHGNELPISAGFFFINPFEVVYYAGGTSNAFRHFAGSYAVQWEMINYALNHGIDRYNFYGVSGKFTEDAEDAGVVKFKKGYNAEIIEYVGDFIKPINKPVYAAYTALKKVKDRIFHHHHHH | 0.639 | 82 | 0.67796 | In | 0.54 | S | 0.38 | In |
| >68adca453c4381aa4c81026c96741b5fffc8e00f |  |  |  |  |  |  |  |  |
| MSSNASTEKQHAGGEKTVKAEPQSTSSQKDSTDDYQPNSQVTDDRTLHKVGQTFSDDKGKAVLKDIKQVNKTYKIGDVELTVKEMKLIHLRPDYSMIDYFHELTHDEEFDFVKVFVDIKNTSTKKVNVAPIALMKTNTGETFDWNKDIYLEELNGELEGGAEKSGNLGFIVNASSGHAHDKAADAEKKTKEIKWIEITTSDVFDHNHKKISDAQKIKIKFLEHHHHHH | 0.566 | 100 | 0.905257 | S | 0.712 | S | -0.59 | S |
| >b804230dd968daf7847491f0588ee0bafd4d566d |  |  |  |  |  |  |  |  |
| GSMADTRRRQNHSCDPCRKGKRRCDAPENRNEANENGWVSCSNCKRWNKDCTFNWLSSQRSKNSS | 0.857 | 81 | 0.944421 | S | 0.773 | In | 1.45 | In |
| >33f057e0bca723bfeecc7f790ef2726d6f0370e5 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHESETLSMSAMESFIEKQTKLLEMQPTKAPEKDPEQPPKGRVDSCVSDAAVPAQDPSNSDPGE | 0.719 | 100 | 0.771629 | S | 0.651 | S | -0.97 | S |
| >0e2f114c6fb7f3dc367952cc25c1946d2e83a7a3 |  |  |  |  |  |  |  |  |
| MSLNRGIGVVTLSTLLASPSALARENPPAEDEPAALEALVVTGEKRERSLKDTASSVSLTSARDIDRKQTGNASVAEVINGSPNVVYTDSVGAPIIRGQDTQGPNNGQNVFWGGTVPRATINLDGHYLNYNEMFFGATSVWDVDSIEVFRGPQTTSQGANEGHHHHHH | 0.822 | 68 | 0.70648 | S | 0.578 | S | 0.95 | In |
| >3d81e1462b970179be791957bcb6d98a9ccdd300 |  |  |  |  |  |  |  |  |
| MKIESMDAANLQVLKTQYKDYQPNTVNSSNNFGKEASNEKKTHVDVSVSGNESEAGLSQRAIIKAIEKANKAINGIHTELEFSIHEKSKEIMVKVIDSETKEVIREIPPEKILDMVAAMLEMAGIIVNERG | 0.27 | 99 | 0.822315 | S | 0.668 | S | 0.03 | In |
| >d4c5b7d2a3a87afc6da842e62e50fec6cc2ba562 |  |  |  |  |  |  |  |  |
| MRYRLAWLLHPALPSTFRSVLGARLPPPERLCGFQKKTYSKMNNPAIKRIGNHITKSPEDKREYRGLELANGIKVLLISDPTTDKSSAALDVHIGSLSDPPNIAGLSHFLQHMLFLGTKKYPKENEYSQFLSEHAGSSNAFTSGEHTNYYFDVSHEHLEGALDRFAQFFLSPLFDESAKDREVNAVDSEHEKNVMNDAWRLFQLEKATGNPKHPFSKFGTGNKYTLETRPNQEGIDVRQELLKFHSAYYSSNLMAVVVLGRESLDDLTNLVVKLFSEVENKNVPLPEFPEHPFQEEHLKQLYKIVPIKDIRNLYVTFPIPDLQKYYKSNPGHYLGHLIGHEGPGSLLSELKSKGWVNTLVGGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQKLRAEGPQEWVFQELKDLNAVAFRFKDKERPRGYTSKIAGILHYYPLEEVLTAEYLLEEFRPDLIEMVLDKLRPENVRVAIVSKSFEGKTDRTEEWYGTQYKQEAIPDEVIKKWQNADLNGKFKLPTKNEFIPTNFEILPLEKEATPYPALIKDTAMSKLWFKQDDKFFLPKANLNFEFFSPFAYVDPLHSNMAYLYLELLKDSLNEYAYAAELAGLSYDLQNTIYGMYLSVKGYNDKQPILLKKIIEKMATFEIDEKRFEIIKEAYMRSLNNFRAEQPHQHAMYYLRLLMTEVAWTKDELKEALDDVTLPRLKAFIPQLLSRLHIEALLHGNITKQAALGIMQMVEDTLIEHAHTKPLLPSQLVRYREVQLPDRGWFVYQQRNEVHNNSGIEIYYQTDMQSTSENMFLELFAQIISEPAFNTLRTKEQLGYIVFSGPRRANGIQGLRFIIQSEKPPHYLESRVEAFLITMEKSIEDMTEEAFQKHIQALAIRRLDKPKKLSAESAKYWGEIISQQYNFDRDNTEVAYLKTLTKEDIIKFYKEMLAVDAPRRHKVSVHVLAREMDSNPVVGEFPAQNDINLSQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKL | 0.614 | 66 | 0.948269 | S | 0.689 | S | 0.19 | In |
| >1c4990b8d5b3daaa51ddd4daeabb06bcf87478a8 |  |  |  |  |  |  |  |  |
| STADEYAKGITISGRLKNVDLALSLFHESANKTTSVYNALMGAYLCNGLSHHCEQLFLDFNSQQDGPSSSTPSVSTYNILISLYGRLIMVERMESVFLQLQQLNILPDSSTYNNLIAGYIYAWDWDKMEATFHSMKNGLVKPTLATYLLMLRGYANSGNLLRMEDMYQAVKRHVDRNEIKLIESMICAYYRSCHKDRIRKIKTLSKLIPKKSYKPWLYLLLMQVYAKDDNLHAMENFIDQAITKGLQIETDGIMRSIVASYFRCNAVDKLAKFVQRANSAGWKMSRSMFHGLMIMYGSQKRFKEMENVLSEMESFKISRSKKTLCILLRVYAATHGQEHKVNQVAGMMLKHGHDFQRPEASKRVMGK | 0.452 | 23 | 0.59972 | S | 0.977 | In | 1.25 | In |
| >58b2a95d5827a5da89a09b70d201b455352935e9 |  |  |  |  |  |  |  |  |
| GLPVINTPGSNQFLTSDDFQSPSAMPQFDVTPELNIPGEVQNLMEIAEVDSVVPVNNVAGNLETMDIYRIPVQSGNHQSSQVFGFQVQPGLDGVFKHTLLGEILNYYAHWSGSIKLTFVFCGSAMATGKFLLAYAPPGANAPKSRKDAMLGTHIIWDVGLQSSCVLCIPWISQTHYRLVQQDEYTSAGNVTCWYQTGIVVPAGTPTSCSIMCFVSACNDFSVRLLKDTPFIQQAALLQ | 0.693 | 56 | 0.727479 | In | 0.527 | In | 0.69 | In |
| >3e472e3587e762d617523ac3c21c91b0091ffe05 |  |  |  |  |  |  |  |  |
| SLVLKILKRISKIEEHMEEPNEEGYIELTETIEEIEPSLYVKVYRPRDFAEIRYILDDLREGIYICFVNISSLKNKSREALKHTLEKMKKTVDAIGGDIAVTTDDWVILTPRGIKIWRESQPSQSQ | 0.773 | 98 | 0.767226 | S | 0.684 | S | -0.84 | S |
| >fb587126b9768daecf133005657646f8be40d656 |  |  |  |  |  |  |  |  |
| MSLTLQSIESGARTHTPRVTEMQVIPVAGRDSMLLNLCGAHAPFFTRNLVILKDNAGRTGVGEVPGGEGIRQALERVIPLVVGQSIGRTNGVLSSIRRALAGGGNAAHQATVHQVTSASEAAVLRQPHEINLRMDNVITAVEAALLDLLGQFLEVPVAELLGAGQQRDSAPMLAYLFYVGDRRKTDLPYLEGANGADDWLRLRHEAAMTPAAIARLAEAATERYGFADFKLKGGVMPGAEEMEAIAAIKARFPHARVTLDPNGAWSLNEAIALCKGQGHLVAYAEDPCGPEAGYSGREVMAEFKRATGIPTATNMIATDWRQMGHAVQLHAVDIPLADPHFWTMQGSVRVAQLCDEWGLTWGSHSNNHFDVSLAMFTHVAAAAPGNITAIDTHWIWQEAQERLTREPLRIQGGHVAVPERPGLGIEIDMDRVMAAHALYKTLGPGARDDAMAMQYLVPGWTYDPKRPSLRREGHHHHHH | 0.751 | 21 | 0.64203 | In | 0.567 | S | 0.13 | In |
| >97317ecaf68f8a07c2e1c319c287c2eb8aa73046 |  |  |  |  |  |  |  |  |
| MSLNVNNFRLKLGGKEYIPIVIGGMGVNISTSELALSAERLGGIGHISDAEVMFVCDQLFGTSYVADKRQMYASNVNNRDKSSVHFDLEQLAEAQKRFVSHTISQKTGNGAIFMNCMEKLTMNNSAATLKVRMEAAMEAGIDGITLAAGLHLRSLDLISEHERFRDVKLGIVISSVRALSIFLKRAMRLQRPPDYIVVEGPLAGGHLGFGPDDWQSQSLQSIVAETLAFLKKENLDIPIIPAGGIFTGTDAVEYLQAGAAAVQVATRFTIARESGLPDEVKQHYINASPEDVEVNLSSPTGYPMRMLKQSPTLYYSRKPNCEGLGYLLDNNGQCSYIDDYYEALESRNPAEGRFVVKNHTCLCTGMARYDCWTCGHTVSRLKETVNRLPDGEGHHHHHH | 0.643 | 36 | 0.724818 | In | 0.744 | In | 0.75 | In |
| >b6e11c81a7c28495ab32c8acd067693d8bc00ed7 |  |  |  |  |  |  |  |  |
| MNASSEGESFAGSVQIPGGTTVLVELTPDIHICGICKQQFNNLDAFVAHKQSGCQLTGTSAAAPSTVQFVSEETVPATQTQTTTRTITSETQTITVSAPEFVFEHGYQTYLPTESNENQTATVISLPAKSRTKKPTTPPAQKRLNCCYPGCQFKTAYGMKDMERHLKIHTGDKPHKCEVCGKCFSRKDKLKTHMRCHTGVKPYKCKTCDYAAADSSSLNKHLRIHSDERPFKCQICPYAGRNSSQLTVHLRSHTASELDDDVPKANCLSTESTDTPKAPVITLPSEAREQMATLGERTFNCCYPGCHFKTVHGMKDLDRHLRIHTGDKPHKCEFCDKCFSRKDNLTMHMRCHTSVKPHKCHLCDYAAVDSSSLKKHLRIHSDERPYKCQLCPYASRNSSQLTVHLRSHTGCCYVA | 0.239 | 99 | 0.538993 | S | 0.852 | In | 1.6 | In |
| >94034ea3da921edd46c550eca117c52d3a828e6c |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMVGKWLEKQEQDEDGTEEDNSRVEPVGHADTGLEHIPNFSLDDMVKLVEVPNDGGPLGIHVVPFSARGGRTLGLLVKRLEKGGKAEHENLFRENDCIVRINDGDLRNRRFEQAQHMFRQAMRTPIIWFHVVPAANKEQYEQL | 0.311 | 87 | 0.681401 | In | 0.595 | S | -0.61 | S |
| >9c5077eb830c2ed8758e6e40a85db5be227e15ab |  |  |  |  |  |  |  |  |
| MTSASPEDQNAPVGCPKGARRRRPISVIGGVSLYGTNQTEELDNLLTQPASRPPMPAHQVPPYKAVSARFRPFTFSQSTPIGLDRVGRRRQMRASNVSSDGGTEPSALVDDNGSEEDFSYEDLCQASPRYLQPGGEQLAINELISDGNVVCAEALWDHVTMDDQELGFKAGDVIQVLEASNKDWWWGRSEDKEAWFPASFVRLRVNQEELSENSSSTPSEEQDEEASQSRHRHCENKQQMRTNVIREIMDTERVYIKHLRDICEGYIRQCRKHTGMFTVAQLATIFGNIEDIYKFQRKFLKDLEKQYNKEEPHLSEIGSCFLQNQEGFAIYSEYCNNHPGACLELANLMKQGKYRHFFEACRLLQQMIDIAIDGFLLTPVQKICKYPLQLAELLKYTTQEHGDYSNIKAAYEAMKNVACLINERKRKLESIDKIARWQVSIVGWEGLDILDRSSELIHSGELTKITKQGKSQQRTFFLFDHQLVSCKKDLLRRDMLYYKGRLDMDEMELVDLGDGRDKDCNLSVKNAFKLVSRTTDEVYLFCAKKQEDKARWLQACADERRRVQEDKEMGMEISENQKKLAMLNAQKAGHGKSKGYNRCPVAPPHQGLHPIHQRHITMPTSVPQQQVFGLAEPKRKSSLFWHTFNRLTPFRK | 0.35 | 64 | 0.795443 | In | 0.825 | In | 0.62 | In |
| >cabacf6cf80d239fe53d2cb55bc1010e2ffc66cf |  |  |  |  |  |  |  |  |
| MKANLLCGNRNLPKHILVEHKHEHWIGIDRGTLILLESGITPQFAVGDFDSISDSERNFIQQQIEINPYNSEKDDTDLALGIDQAVKRGYRNIDVYGATGGRLDHFMGALQILEKPEYAKMNINIKLIDDTNEIQFIQKGQFNVTYSEQFPYISFIPVIYPTVISLKGFKYNLQNETLKLGSTLTISNELSQSCGNIEIIEGSVLMIRSKDE | 0.385 | 28 | 0.695898 | In | 0.804 | S | 0.07 | In |
| >15954441696a74ca514a59aff39b151380d46a09 |  |  |  |  |  |  |  |  |
| MNDKKIELLTTYLSLYIDHHTVLADMQNATGKYVVLDVRNAPAQVKKDQIKGAIAMPAKDLATRIGELDPAKTYVVYDWTGGTTLGKTALLVLLSAGFEAYELAGALEGWKGMQLPLEHHHHHH | 0.545 | 85 | 0.938027 | S | 0.755 | S | -0.71 | S |
| >27f8180fe16bc5d6861df502f7a35cc6d7a7b0c3 |  |  |  |  |  |  |  |  |
| SPSTPLANGGTPPMGGGERTTVTTSTVADDKPGVSMMEQLVPEITTHALSYLDYPSLCRLSMTNSLMRKAANDDNAWKALYHKDFTLEQDGITPVNGWKEYYATTRAIISVNTEFFTIIRDRALQAMARLWLNSDYVKCIHASGELFSGYNEVIQSWQLCFNWEQGFDFQVHTVRTRILTDMAWVTMKAYLNVDGGPFLITNVFEFHNGRWHMVHHHSSVMLIDDQQVVVH | 0.614 | 12 | 0.733272 | In | 0.608 | In | -0.15 | S |
| >546a86c8c75ff9a88c9259e51c88c74f9e4bc466 |  |  |  |  |  |  |  |  |
| MAHHHHHHMTIRVMLQAMDQGHLLVNNVDKYVRAGRGVMVYIAFLSDRDSAPITDEALRHAVGVLLHTKIFTHFSPEKMINQPQSLEECPEMDILIVPQASLGGKVKGRSVQFHQLVAKDVGAALYDRFCHFVRVARGVDESRVDANGAPRSEGDAPKAEGWIKYNSRVISGTFGNRQGLRFESEGPFTHMFDI | 0.409 | 45 | 0.605415 | In | 0.645 | S | 0.66 | In |
| >6fff647fdedd4d727daf818dd0a1dda2bf63db22 |  |  |  |  |  |  |  |  |
| ASYKVNIPAGPLWSNAEAQQVGPKIAAAHQGNFTGQWTTVVESAMSVVEVELQVENTGIHEFKTDVLAGPLWSNDEAQKLGPQIAASYGAEFTGQWRTIVEGVMSVIQIKYTF | 0.824 | 82 | 0.951011 | S | 0.533 | S | -0.22 | S |
| >4aed4c2bed808ea3ed3693ff008b3d24d5d2ca8e |  |  |  |  |  |  |  |  |
| VEAVAMSAGSATHPGAGGRRSKWDQPAPAPLLFLPPAAPGGEVTSSGGSPGGTTAAPSGALDAAAAVAAKINAMLMAKGKLKPTQNASEKLQAPGKGLTSNKSKDDLVVAEVEINDVPLTCRNLLTRGQTQDEISRLSGAAVSTRGRFMTTEEKAKVGPGDRPLYLHVQGQTRELVDRAVNRIKEIITNGVVKAATGTSPTFNGATVTVYHQPAPIAQLSPAVSQKPPFQSGMHYVQDKLFVGLEHAVPTFNVKEKVEGPGCSYLQHIQIETGAKVFLRGKGSGCIEPASGREAFEPMYIYISHPKPEGLAAAKKLCENLLQTVHAEYSRFVNQINTAVPLPGYTQPSAISSVPPQPPYYPSNGYQSGYPVVPPPQQPVQPPYGVPSIVPPAVSLAPGVLPALPTGVPPVPTQYPITQVQPPASTGQSPMGGPFIPAAPVKTALPAGPQPQPQPQPPLPSQPQAQKRRFTEELPDERESGLLGYQHGPIHMTNLGTGFSSQNEIEGAGSKPASSSGKERERDRQLMPPPAFPVTGIKTESDERNGSGTLTGSHGECDIAGGTGEWLRLV | 0.696 | 100 | 0.737687 | S | 0.606 | S | 2.76 | In |
| >7f725362ea006ffe86897623de8b6ca8aeef46a0 |  |  |  |  |  |  |  |  |
| MALDNLLRHLKISKEQITPVVLVVGDPGRVDKIKVVCDSYVDLAYNREYKSVECHYKGQKFLCVSHGIGSAGCAICFEELCQNGAKVIIRAGSCGSLQPDLIKRGDICICNAAVREDRVSHLLIHGDFPAVGDFDVYDTLNKCAQELNVPVFNGISVSSDMFYPNKIIPSRLEDYSKANAAVVEMELATLMVIGTLRKVKTGGILIVDGCPFKWDEGDFDNNLVPHQLENMIKIALGACAKLATKYAKGEFEAYVEQKLISEEDLNSAVDHHHHHH | 0.647 | 98 | 0.675322 | In | 0.63 | S | -0.27 | S |
| >bdac6c6b28a4e51f552c87d013a39ab6b49c362e |  |  |  |  |  |  |  |  |
| MSLKRFLLISDSHVPVRMASLPDEILNSLKEYDGVIGLGDYVDLDTVILLEKFSKEFYGVHGNMDYPDVKEHLPFSKVLLVEGVTIGMCHGWGAPWDLKDRLLKVFNEKPQVILFGHTHEPEDTVKAGVRFLNPGSLAEGSYAVLELDGGEVRFELKTLEGGSHHHHHH | 0.833 | 97 | 0.963562 | S | 0.823 | S | -0.79 | S |
| >da0c275676adecd9d1404a14f223980cae83fff8 |  |  |  |  |  |  |  |  |
| MEQSASDSNKSQNAISEVMSATSAINGLYIGQTSYSGLDSTILLNTSAIPDNYKDTTNKKITNPFGGELNVGPANNNTAFGYYLTLTRLDKAACVSLATLNLGTSAKGYGVNISGENNITSFGNSADQAAKSTAITPAEAATACKNTDSTNKVTYFMK | 0.406 | 69 | 0.73427 | S | 0.56 | In | 2.29 | In |
| >06372d5050fcc231c89db9a5dba19727cad55542 |  |  |  |  |  |  |  |  |
| MHHHHHHHLEAPSPYSTLVVFGDSLSDAGQFPDPAGPAGSTSRFTNRVGPTYQNGSGEIFGPTAPMLLGNQLGIAPGDLAASTSPVNAQQGIADGNNWAVGGYRTDQIYDSITAANGSLIERDNTLLRSRDGYLVDRARQGLGADPNALYYITGGGNDFLQGRILNDVQAQQAAGRLVDSVQALQQAGARYIVVWLLPDLGLTPATFGGPLQPFASQLSGTFNAELTAQLSQAGANVIPLNIPLLLKEGMANPASFGLAADQNLIGTCFSGNGCTMNPTYGINGSTPDPSKLLFNDSVHPTITGQRLIADYTYSLLSAPWELTLLPEMAHGTLRAYQDELRSQWQADWENWQNVGQWRGFVGGGGQRLDFDSQDSAASGDGNGYNLTLGGSYRIDEAWRAGVAAGFYRQKLEAGAKDSDYRMNSYMASAFVQYQENRWWADAALTGGYLDYDDLKRKFALGGGERSEKGDTNGHLWAFSARLGYDIAQQADSPWHLSPFVSADYARVEVDGYSEKGASATALDYDDQKRSSKRLGAGLQGKYAFGSDTQLFAEYAHEREYEDDTQDLTMSLNSLPGNRFTLEGYTPQDHLNRVSLGFSQKLAPELSLRGGYNWRKGEDDTQQSVSLALSLDF | 0.468 | 32 | 0.511149 | S | 0.691 | S | 0.63 | In |
| >21f6a6ff4caef7290f40d183f1dbfb37cd5de166 |  |  |  |  |  |  |  |  |
| MKGIIFNVLEDMVVAQCGMSVWNELLEKHAPKDRVYVSAKSYAESELFSIVQDVAQRLNMPIQDVVKAFGQFLFNGLASRHTDVVDKFDDFTSLVMGIHDVIHLEVNKLYHEPSLPHINGQLLPNNQIALRYSSPRRLCFCAEGLLFGAAQHFQQKIQISHDTCMHTGADHCMLIIELQNDLEHHHHHH | 0.362 | 89 | 0.789852 | In | 0.605 | S | -0.99 | S |
| >61a2f9b8d18b94904ebaea3d34da7140cb08483f |  |  |  |  |  |  |  |  |
| MASSSSRGEMEKMGIDQLKALKEQADLEVNLLQDSLNNIRTATVRLDAAAAALNDLSLRPQGKKMLVPLTASLYVPGTLDEADKVLVDIGTGYFIEKTMDDGKDYCQRKINLLKSNFDQLFEVAAKKKSVADEAGMVLQAKVKQLTAATTS | 0.552 | 98 | 0.791284 | S | 0.58 | In | -0.03 | S |
| >7858300c6c9d95249516773a4e75ee3dbe37fd82 |  |  |  |  |  |  |  |  |
| QIASDVEAPPPAPAKVEKHSKKMEEGITVNKFKPKTPYVGRCLLNTKITGDDAPGETWHMVFSHEGEIPYREGQSVGVIPDGEDKNGKPHKLRLYSIASSALGDFGDAKSVSLCVKRLIYTNDAGETIKGVCSNFLCDLKPGAEVKLTGPVGKEMLMPKDPNATIIMLGTGTGIAPFRSFLWKMFFEKHDDYKFNGLAWLFLGVPTSSSLLYKEEFEKMKEKAPDNFRLDFAVSREQTNEKGEKMYIQTRMAQYAVELWEMLKKDNTYFYMCGLKGMEKGIDDIMVSLAAAEGIDWIEYKRQLKKAEQWNVAVY | 0.729 | 94 | 0.537817 | In | 0.877 | In | 0.75 | In |
| >6f5e4698ad748dfea2ec782269615da9c233d8cf |  |  |  |  |  |  |  |  |
| SPHRKKKPFIEKKKAVSFHLVHRSQRDPLAADESAPQRVLLPTQKIDNEERRAEQRKYGVFFDDDYDYLQHLKEPSGPSELIPSSTFSAHNRREEKEETLVIPSTGIKLPSSVFASEFEEDVGLLNKAAPVSGPRLDFDPDIVAALDDDFDFDDPDNLLEDDFILQANKATGEEEGMDIQKSENEDDSEWEDVDDEKGDSNDDYDSAGLLSDEDCMSVPGKTHRAIADHLFWSEETKSRFTEYSMTSSVMRRNEQLTLHDERFEKFYEQYDDDEIGALDNAELEGSIQVDSNRLQEVLNDYYKEKAENCVKLNTLEPLEDQDLPMNELDESEEEEMITVVLEEAKEKWDCESICSTYSNLYNHPQLIKYQPKPKQIRISSKTGIPLNVLPKKGLTAKQTERIQMINGSDLPKVSTQPRSKNESKEDKRARKQAIKEERKERRVEKKANKLAFKLEKRRQEKELLNLKKNVEGLKL | 0.73 | 98 | 0.685268 | In | 0.888 | In | -1.5 | S |
| >bbf799c358047c4b1f9b2b54a6f950fb191c0ef6 |  |  |  |  |  |  |  |  |
| GAMGIRNSKAYVEHRLRAAEHPRPDYVLLHISDTHLIGGDRRLYGAVDADDRLGELLEQLNQSGLRPDAIVFTGDLADKGEPAAYRKLRGLVEPFAAQLGAELVWVMGNHDDRAELRKFLLDEAPSMAPLDRVCMIDGLRIIVLDTSVPGHHHGEIRASQLGWLAEELATPAPDGTILALHHPPIPSVLDMAVTVELRDQAALGRVLRGTDVRAILAGHLHYSTNATFVGIPVSVASATCYTQDLTVAAGGTRGRDGAQGCNLVHVYPDTVVHSVIPLGGGETVGTFVSPGQARRKIAESGIFIEPSRRDSLFKHPPMVLTSSAPRSPVD | 0.477 | 53 | 0.779631 | In | 0.821 | In | 0.29 | In |
| >dda9a4ae2d5011f20e6cc1a124eda259cf67785f |  |  |  |  |  |  |  |  |
| MSEQTERAFLKQPTVNLNNKARILAGSKKTPRYIREVGLGFKAPRDAVEGTYIDKKCPWAGNVPIRGMILTGVVLKNKMTRTIVVRRDYLHYIKKYRRYEKRHKNVPAHCSPAFRDIHPGDLVTIGECRPLSKTVRFNVLKVNKSGTSKKGFSKF | 0.374 | 82 | 0.825944 | In | 0.582 | In | -1.73 | S |
| >df17fb24fad4d73c2ae8bf2eb778ce4d3605b927 |  |  |  |  |  |  |  |  |
| MARKRRQDATPPLFELELAKEPRHFDEANVARLGLISIQERIPEGYASWEEEFEVLGKPVKLACYANPNVGGVPHGLDNEVSLALIALYLNAGSPPDGTFTTTAYQILKLMGFDTSGYYYRALKESLLRLTTATYVLSEAWRADGRWQSVSFRYIDKLEFTSGKEGSLDRSSVIRITLAKEIVRSLQNRYTKPIDIEFMASLKRPLSRALYRLLDAQRLSPEREEPLAQLEVGLMEWAAACKIVHKRPDKVRRTLEPAHRELIERRYLRSVEYVGRGKNQTIVYVFGEEAGGIPDAEAVNLLMAEGLSFTSAYSLARRYSLGHIKERLERYRAILEAGYRPKNRLGLLVDVIRDETGKYERPTRTRRPAKRQAAQEEAEARRLEEEAAREWAEMPREAQIRRALQVAQLVLRSRISVGELEDLNRLMESGALEPRRVVEELKEALAQDRLEGWLERFRKMLPG | 0.482 | 81 | 0.703238 | S | 0.545 | In | 0.68 | In |
| >eefc91389e7cc7404144a9ef84e438855c5ae6f9 |  |  |  |  |  |  |  |  |
| MSLEVIIKAKVKPTEDKYKVKKAILNIFPKAKLTFIEKDNEFGEWEGKTKSVEKLKELLRSQSILDAARMVLEKGMTENATKFYLNKQAAYVGAVNFDIDTHGGIFVKILADENEDIMKIIKDIAPRTKGGVIINEDELEEEEEKEDSEEIKEGHKEENNLKIKVIDNSSGDEGHHHHHH | 0.873 | 100 | 0.795425 | S | 0.874 | S | -1.42 | S |
| >634625fb2a883f85717ec87e2d719e9a6565119b |  |  |  |  |  |  |  |  |
| GAKPGKKTRGRVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATRKLQPMITSETGKALIQTCLNSPDSPPRSDPTTDQR | 0.815 | 70 | 0.780193 | S | 0.537 | S | -0.97 | S |
| >a55772509f09d48c7fb1d31e203ee735c73b7d3e |  |  |  |  |  |  |  |  |
| SGYTKKVYEGGSNVDQFVTRFLLKETANQIQSLLSSVESAVEAIEEQTSQLRQNHIKPSHSAAQTWCGSPTPASAPNHKLMAMEQGKTLPSATEDAKEEGLEAQISRLAELIGRLESKALWFDLQQRLSDEDGTNMHLQLVRQEMAVCPEQLSEFLDSLRQYLRGTTGVRNCFHITAVRLSDGFTFVIYEFWETEEAWKRHLQSPLCKAFRHVKVDTLSQPEALSRILVPAAWCTVGRD | 0.797 | 56 | 0.576438 | In | 0.578 | S | -0.24 | S |
| >6a4b9a2308ad719223fa2d803c7cb1a204be4f72 |  |  |  |  |  |  |  |  |
| MAHHHHHHMHPGFSFNGIQRPMNTVGEYYLQVCGKYHLDWHAHHAQTGIHDFLEPPRPIIRKPINLRHEYNIAESKLTLEFVLERGSYANVAISELMKLLRCAGSESILLLPAPEGIWDIGSRDPGYVKSMQDIYSGFEDGLGFVTDKHDLPLVGEGKVWDHDGPLFLPDSADPVRKAYRWGEQHLLRNMERRERDEEAMKMRLFEKPLARTLKDGEVARYAGHTVPMLPNSKAKRVFFTVLRRQQRFPCAPKTVPRIRRGAEVRNRTPVNVPFKTINRNTWNVTW | 0.383 | 52 | 0.789999 | In | 0.92 | In | 1.68 | In |
| >789f5949897e337c546e070f47626a5648b4c118 |  |  |  |  |  |  |  |  |
| MEQCGAQAGGARCPNCLCCSRWGWCGTTSDFCGDGCQSQCSGCGPTPTPTPPSPSDGVGSIVPRDLFERLLLHRNDGACPARGFYTYEAFLAAAAAFPAFGGTGNTETRKREVAAFLGQTSHETTGGWPTAPDGPFSWGYCFKQEQNPPSDYCQPSPEWPCAPGRKYYGRGPIQLSFNFNYGPAGRAIGVDLLSNPDLVATDATVSFKTALWFWMTPQGNKPSSHDVITGRWAPSPADAAAGRAPGYGVITNIVNGGLECGHGPDDRVANRIGFYQRYCGAFGIGTGGNLDCYNQRPFNSGSSVGLAEQ | 0.506 | 94 | 0.814291 | S | 0.787 | In | 2.46 | In |
| >2130ada145a52294dd9962b81aef2535ab0171b0 |  |  |  |  |  |  |  |  |
| MSLTINYKAKYVVSNSQTVLKDKVIQIQEGKISGVIDEKDLERGSQIEDLGNVAIVPGFVNAHSHVGLVSVKGLGHSQASALYDVMWGIEPHLTEDDVYKLSCLGILDCLSSGTTSINDHYFFSEGVAKACLDTGIRGFIGHTVMTEYGPWVGEEQLIMAESFVKNFIKSNDLIHPVIAPHATDTTNPKTILRMKKLAEENNLPIHMHLSQTKVEFDYIKENFGLSPIKHAQEIGLLGSNLIAAHCNVVEEGDLELLASSDTYPIFCPSTHALGGKLLDTNNLLSNNAKWGIGTDCSGGNDDYDMIEETRTALLLNNSKGLETKITPKDVFDMATKQNFERLALQNNIYNMENGSYADFITINLDSEKIQPIHDLINNIVLSSSSKEVKDVVVNGKEVIRNYEFIDLDKEKIIFEANQVLEKLLIKSNFKERIEKGEFSEGHHHHHH | 0.673 | 91 | 0.621083 | In | 0.578 | S | -0.36 | S |
| >5cadd40f220d29f2c3dfc680d89b3d4ee0ed30a2 |  |  |  |  |  |  |  |  |
| MTSRDGYQWTPETGLTQGVTSLGVISPPTNIEDTDKDGPWDVIVIGGGYCGLTATRDLTVAGFKTLLLEARDRIGGRSWSSNIDGYPYEMGGTWVHWHQSHVWREITRYKMHNALSPSFNFSRGVNHFQLRTNPTTSTYMTHEAEDELLRSALHKFTNVDGTNGRTVLPFPHDMFYVPEFRKYDEMSYSERIDQIRDELSLNERSSLEAFILLCSGGTLENSSFGEFLHWWAMSGYTYQGCMDCLMSYKFKDGQSAFARRFWEEAAGTGRLGYVFGCPVRSVVNERDAARVTARDGREFVAKRVVCTIPLNVLSTIQFSPALSTERISAMQAGHVSMCTKVHAEVDNKDMRSWTGIAYPFNKLCYAIGDGTTPAGNTHLVCFGTDANHIQPDEDVRETLKAVGQLAPGTFGVKRLVFHNWVKDEFAKGAWFFSRPGMVSECLQGLREKHGGVVFANSDWALGWRSFIDGAIEEGTRAARVVLEELGTKREVKARL | 0.585 | 14 | 0.724041 | In | 0.796 | In | 0.69 | In |
| >5afc62b7af08a57fc9fcbd573d213952dec12211 |  |  |  |  |  |  |  |  |
| MTIQWFPGHMAKARREVTEKLKLIDIVYELVDARIPMSSRNPMIEDILKNKPRIMLLNKADKADAAVTQQWKEHFENQGIRSLSINSVNGQGLNQIVPASKEILQEKFDRMRAKGVKPRAIRALIIGIPNVGKSTLINRLAKKNIAKTGDRPGITTSQQWVKVGKELELLDTPGILWPKFEDELVGLRLAVTGAIKDSIINLQDVAVFGLRFLEEHYPERLKERYGLDEIPEDIAELFDAIGEKRGCLMSGGLINYDKTTEVIIRDIRTEKFGRLSFEQPTM | 0.669 | 79 | 0.81475 | In | 0.582 | S | 0.99 | In |
| >8c38ca7e883be3b8bacfe1237f6f1c9e705d97ed |  |  |  |  |  |  |  |  |
| MSLSDESFEFDVSVIGLGAMGTIMAQVLLKQGKRVAIWNRSPGKAAALVAAGAHLCESVKAALSASPATIFVLLDNHATHEVLGMPGVARALAHRTIVDYTTNAQDEGLALQGLVNQAGGHYVKGMIVAYPRNVGHRESHSIHTGDREAFEQHRALLEGLAGHTVFLPWDEALAFATVLHAHAFAAMVTFFEAVGAGDRFGLPVSKTARLLLETSRFFVADALEEAVRRLETQDFKGDQARLDVHADAFAHIAQSLHAQGVWTPVFDAVCQVVQRAAAMGYGDQDIAATTKSFAREQEEGHHHHHH | 0.645 | 64 | 0.61419 | S | 0.616 | In | -0.99 | S |
| >af76e3a67c1fe900f992cac4ae1e395d042f2e79 |  |  |  |  |  |  |  |  |
| MAKHDLVGSVLWDAYSKEVQRRMDNPTHLGVITEEQAKAKNAKLIVADYGAEACGDAVRLYWLVDESTDRIVDAKFKSFGCGTAIASSDMMVELCLNKRVQDAVKITNLDVERGLRDDPDTPAVPGQKMHCSVMAYDVIKKAAGMYLGKNAEDFEEEIIVCECARVSLGTIKEVIKLNDLKSVEEITNYTKAGAFCKSCVRPGGHEKRDYYLVDILKEVREEMEAEKLKATANKSQSGELAFREMTMVQKIKAVDKVIDENIRPMLMMDGGDLEILDIKESDDYIDVYIRYMGACDGCMSATTGTLFAIENALQELLDRSIRVLPILEHHHHHH | 0.65 | 96 | 0.628767 | S | 0.654 | In | -1.52 | S |
| >a68d9b66f88ad5934d7783da4c85763cbd5967fd |  |  |  |  |  |  |  |  |
| DVQTALQHSIREIGLRLMRMKNDGMSQKDIAAKEGLSQAKVTRALQAASAPEELVALFPVQSELTFSDYKTLCAVGDEMGNKNLEFDQLIQNISPEINDILSINEMAEDEVKNKILRLITKEASLLTDKGSKDKSVVTELWKFEDKDRFARKRVKGRAFSYEFNRLSKELQEELDRMIGHILRKSLDKKPKP | 0.648 | 94 | 0.800353 | In | 0.783 | S | 0.37 | In |
| >02d62b6eae6e9fa556efeb858336b73885506c71 |  |  |  |  |  |  |  |  |
| MSLSLFDLEKDLHIISTGFDEESAILGAGREFALMKTANGKIYYTGKYQSLGIKQGGPSAGKWVELPITKSPKIVHFSVGHDGSHALLVAEDGSVFFTGSASKGEDGESTKSRRQSKPYKPKKIIKMEGKIVVYTACNNGSSSVISKDGELYMFGKDAIYSDSSSLVSDLKGHFVTQVAMGKAHTCVLMKNGEVWTFGVNNKGQCGRDTGAMNQGGKGFGVENMATAMDEDLEEELDEKDEKSMMCPPGMHKWKLEQCMVCTVCGDCTGYGASCVSSGRPDRVPGGICGCGSGESGCAVCGCCKACARELDGQEARQRGILDAVKEMIPLDLLLAVPVPGVNIEEHLQLRQEEKRQRVIRRHRLEDGRGPLVFAGPIFMNHREQALARLRSHPAQLKHKRDKHKDGSGDRGEKDASKITTYPPGSVRFDCELRAVQVSCGFHHSVVLMENGDVYTFGYGQHGQLGHGDVNSRGCPTLVQALPGPSTQVTAGSNHTAVLLMDGQVFTFGSFSKGQLGRPILDIPYWNAKPAPMPNIGSKYGRKATWIGASGDQTFLRIDEALINSEGHHHHHH | 0.751 | 93 | 0.815879 | S | 0.613 | S | 1.66 | In |
| >3c22c87f2a8c817289ea46dc50b207dcd9f1428c |  |  |  |  |  |  |  |  |
| MAENQSTVENAKEKLDRWLKDGITTPGGKLPSERELGELLGIKRMTLRQALLNLEAESKIFRKDRKGWFVTQPRFNYSPELSASFQRAAIEQGREPSWGFTEKNRTSDIPETLAPLIAVTPSTELYRITGWGALEGHKVFYHETYINPEVAPGFIEQLENHSFSAVWEKCYQKETVVKKLIFKPVRMPGDISKYLGGSAGMPAILIEKHRADQQGNIVQIDIEYWRFEAVDLIINL | 0.552 | 53 | 0.667316 | S | 0.843 | S | 0.68 | In |
| >4b8326b100333f44cac1952345f8c99ae82c0b50 |  |  |  |  |  |  |  |  |
| MTVVEIKSQDQFTQLTTTNAANKLIVLYFKAQWADPCKTMSQVLEAVSEKVRQEDVRFLSIDADEHPEISDLFEIAAVPYFVFIQNGTIVKEISAADPKEFVKSLEILSNASASLANNAKGPKSTSDEESSGSSDDEEDETEEEINARLVKLVQAAPVMLFMKGSPSEPKCGFSRQLVGILREHQIRFGFFDILRDENVRQSLKKFSDWPTFPQLYINGEFQGGLDIIKESIEEDPEYFQHALQ | 0.659 | 92 | 0.535048 | In | 0.68 | S | -1.49 | S |
| >07c96145d882cb0972578874513c09b82777245c |  |  |  |  |  |  |  |  |
| SNAVELLQVDADLQAEIVGKYNADLQKAVQIEEKKASEIATEAVKEHVTAEYEERYAEHEEHDRIMRDVAEILEQMEHAEVRRLITEDKVRPD | 0.545 | 100 | 0.96669 | In | 0.706 | S | -5.73 | S |
| >c62254b6e89c1c7d0b0421696e85b540e2bc6008 |  |  |  |  |  |  |  |  |
| MFNFANFYQLIAQDTVLQPWLNTLPQQLTDWQNAEHGDIERWIKALKKIPEGCADNIDLKSSVTLSNNTPLIDGERKKLENLLQTFHPWRKGPFTVHDIHIDTEWRSDWKWDRLLPHITPLKNRSVLDVGCGNGYHMWRMLGEDARLCVGIDPSHLFLIQFEAIRKLMGNDQRAHLLPLGIEQLPELNAFDTVFSMGVLYHRRSPLDHLIQLKNQLVAGGELVLETLVIDGDENAVLMPVDRYAQMRNVYFFPSARALKVWLESVGFVDVKIVDECVTTTGEQRSTEWMKHNSLPEYLDPNDSTKTIEGHPAPKRAILIAKKPD | 0.214 | 42 | 0.588705 | S | 0.865 | In | -0.14 | S |
| >fb78f992c40317ae79ab0c3a492d368873cd33aa |  |  |  |  |  |  |  |  |
| MAIGERIRFFRNLRGMTQKYLGTVVGFPENTADIRMAQYESGSRTPKADLTENLAGVLGVSPLALSVPDIDSYLGLMHTLFTLEDRYGLTIEKGENGVSMCVDPRKGKDAAELSEMLNAWAKQAEKYHNGDISREDYDKWRYNYPKYDENSGYVKVPSQGLSDKMIEAFKDRLKNDLEHHHHHH | 0.596 | 57 | 0.730574 | In | 0.781 | S | 0.28 | In |
| >80c5c26053012fe09610b096f535d34267c7bd63 |  |  |  |  |  |  |  |  |
| MRDLDREETYLVDRTGLALELRDLVGTGPVPGEAYPGPHAALGYGEGQFAALLSGLPDWGEEGTLFLLEGGYDLGEAAGMALLAETGRARVVRVGFRPGVEVHIPPSPLAPYRYLRFLLLATGREEVLRSVDEALLEERRRLGPEVPVEENPAKFLAYTLLERLPLFYSPLFRPLEGAVQTLFARVAKSLSLTPPPSALEFFLVGLEARHEQGDPLAAVLLGPGEEAALAKEILESRVDALAEVPATGANRLAQVMALWYRMAWTAYYLALLYGVDPGDHGLLERLREVT | 0.753 | 39 | 0.984835 | S | 0.697 | S | -0.83 | S |
| >0b130ec5bb0cf203352be827628a0bd0847cbe7f |  |  |  |  |  |  |  |  |
| GMPIPLEKQNKERRQKILTCSLDLFIEKGYYNTSIRDIIALSEVGTGTFYNYFVDKEDILKNLLEDFAKQIISSISEYYLVEKDLYERFIETKRLTMEVFAQNETLSEIYSRVAGSSAPIDQCLKQFEDRLLEFYSRNIEYGIKKGVFKNVPVSPIAHSILAIEKFSLYKWVVLKAITKEEMIEMVLSFHKTLAVGLLVVND | 0.568 | 77 | 0.800129 | In | 0.584 | S | -0.29 | S |
| >2c61fd2d4d78fa354a9c7dce4b7f4877a7f07dbc |  |  |  |  |  |  |  |  |
| MSLESTSPRQRLVLARTEARSTCSGKASGSVSKLLVSVRDLGEARVAVSGGVDILDFKEPSRGALAACDPCVWKSAVSEFVDGAPADCTVRLSAALGESDTGADLSSLVPPEFSFAKVGPSGCSTAKKLMELWESVRLPQSVELVPVAYADHLVADTISVERVLDIVIESGRHRLLIDTFGKDGRTLTDHLSIDRLRALANMASEHSVWIALAGSLRLPEMRSLMSEGVRPDCWGVRGDVCDQRERTGRINLHKVTAWRKATGSPAIEGHHHHHH | 0.734 | 72 | 0.695393 | In | 0.924 | In | 0.89 | In |
| >a8f596fea2f74c3281ece7e0c1908ca83da5526e |  |  |  |  |  |  |  |  |
| MKFPRLVPSKIKRHGLLLDRPASDPLPCKTCDGACCRAFPSVPISWPEYERLHALGATRLHFSLTGRHLLLIENGCEFLADGRCAIYPDRPDVCRRFICEECLEHHHHHH | 0.501 | 90 | 0.708537 | S | 0.664 | In | 1.03 | In |
| >9e24576285e7a5beedc7524328b6bd0bc697bd45 |  |  |  |  |  |  |  |  |
| MGTTAPGPIHLLELCDQKLMEFLCNMDNKDLVWLEEIQEEAERMFTR | 0.182 | 100 | 0.793008 | S | 0.5 | S | -4.4 | S |
| >f2a55b51fa4989ac84f517ce2faff1d7ec06f499 |  |  |  |  |  |  |  |  |
| MSLDPRWTTLLQEARAAHGATPELRDFCAFPDALRDQPGDPRPDPLAVTMQDAPGDTSARWQGFRDAACAVGPIARWRDTYRHTAIGADLHRHFGCYELLGQDAPYGTEQMRGFLVYQRPGYHYPPHHHPAEEIYLVVAGEAEFHLDGHAPRRLGPGGTVFHPSGVAHALTTHDSPVLAWVLWRGEMDTRPVFSDPALQGEAQREGHHHHHH | 0.752 | 50 | 0.528028 | S | 0.611 | S | -0.58 | S |
| >87b7ae567c87a867e0129d94effb3cb9b26d51b0 |  |  |  |  |  |  |  |  |
| MSLKLEARVHERNLVKWAADKPEVVVFSADLTNSTEIGLFKETYPDRFYSFGMTEQNMMSAAGGMAREGFTPFVHTFAVFMYRRALDQIEMSIAYPNLKVRIFGFLPGITTPGGASHQAINDIGILRTVPNMTILETGDATEVESVLDVAQSIDGPVYIRQLRGQIPRLFKEPMRFGKSRVLSKGSDITLITSGIMTEEALKATAVLRENGVSIEHLHISTHKPFGDDSILDAIEKTKYGVISMENHTIIGGLGSSISELMAENGIAKRLIRIGLKDTYAHGGSKEYLMKYYGLNAMNLVKAVEILTGQKLNIKEEDLVEPQIDEIEQFIKSEDEGHHHHHH | 0.669 | 45 | 0.7395 | In | 0.647 | In | 0.01 | In |
| >de8bb7e604d602cf522ca709a5b1256919408522 |  |  |  |  |  |  |  |  |
| MGNKQAKAPESKDSPRASLIPDATHLGPQFCKSCWFENKGLVECNNHYLCLNCLTLLLSVSNRCPICKMPLPTKLRPSAAPTAPPTGAADSIRPPPYSP | 0.349 | 100 | 0.924975 | S | 0.78 | In | 2.98 | In |
| >ff3508c17715a272abb16f7666d438024c2ba70f |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMASMILELDCGNSLIKWRVIEGAARSVAGGLAESDDALVEQLTSQQALPVRACRLVSVRSEQETSQLVARLEQLFPVSALVASSGKQLAGVRNGYLDYQRLGLDRWLALVAAHHLAKKACLVIDLGTAVTSDLVAADGVHLGGYICPGMTLMRSQLRTHTRRIRYDDAEARRALASLQPGQATAEAVERGCLLMLRGFVREQYAMACELLGPDCEIFLTGGDAELVRDELAGARIMPDLVFVGLALACPIE | 0.318 | 27 | 0.889945 | In | 0.842 | In | -0.02 | S |
| >69c4af6e79322baa285ef7c7e121cf7e1c4bf271 |  |  |  |  |  |  |  |  |
| MTATVLLEVPFSARGDRIPDAVAELRTREPIRKVRTITGAEAWLVSSYALCTQVLEDRRFSMKETAAAGAPRLNALTVPPEVVNNMGNIADAGLRKAVMKAITPKAPGLEQFLRDTANSLLDNLITEGAPADLRNDFADPLATALHCKVLGIPQEDGPKLFRSLSIAFMSSADPIPAAKINWDRDIEYMAGILENPNITTGLMGELSRLRKDPAYSHVSDELFATIGVTFFGAGVISTGSFLTTALISLIQRPQLRNLLHEKPELIPAGVEELLRINLAFADGLPRLATADIQVGDVLVRKGELVLVLLEGANFDPEHFPNPGSIELDRPNPTSHLAFGRGQHFCPGSALGRRHAQIGIEALLKKMPGVDLAVPIDQLVWRTRFQRRIPERLPVLW | 0.488 | 43 | 0.535378 | S | 0.675 | S | 0.73 | In |
| >2a56f9b6c284763f47895d01f00fe79f67e68b4e |  |  |  |  |  |  |  |  |
| MELYVNFELPPEAEEELRKYFKIVRGGDLGNVEAALVSRITAEELAKMPRLKFIQVVTAGLDHLPWESIPPHVTVAGNAGSNADAVAEFALALLLAPYKRIIQYGEKMKRGDYGRDVEIPLIQGEKVAVLGLGEIGTRVGKILAALGAQVRGFSRTPKEGPWRFTNSLEEALREARAAVCALPLNKHTRGLVKYQHLALMAEDAVFVNVGRAEVLDRDGVLRILKERPQFIFASDVWWGRNDFAKDAEFFSLPNVVATPWVAGGYGNERVWRQMVMEAVRNLITYATGGRPRNIAKREDYIGS | 0.567 | 49 | 0.764986 | S | 0.52 | In | 0.76 | In |
| >951a07b8c17e925dd5c89fd6ee6a21af5fc2598f |  |  |  |  |  |  |  |  |
| SMSASEEQVAQDTEEVFRSYVFYRHQQEQEAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNLGNGPILN | 0.561 | 10 | 0.683202 | In | 0.684 | S | -0.57 | S |
| >e4000460fb95b9fef0a1ec2f0033fa08e34c7beb |  |  |  |  |  |  |  |  |
| MTINNDPMRDAIVDTAVELAAHTSWEAVRLYDIAARLAVSLDEIRLYFREKDELIDAWFDRADSRMLKEAESAGFLDLVASERIHHLIMIWLDALAVQRKVTRQMIMSKLEFGHIHIQIPAVMRVSRTVQWVREAAQRDATFMRRALEESTLTTIYLMTFFFWMRDESENSRHTRQFLKRHLTMAAWLGQKVYGKDPEKSTVPHKQQIPLQFD | 0.235 | 80 | 0.74622 | In | 0.786 | In | -1.07 | S |
| >748e3b770b435028353c5e8a91af4125afae794c |  |  |  |  |  |  |  |  |
| MGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK | 0.422 | 100 | 0.872062 | S | 0.647 | In | 0.14 | In |
| >426058b4c8898305a3d6ca352903779a059d2252 |  |  |  |  |  |  |  |  |
| MLKRTTKIAFLSSFVALSAFSVSAEDMQFGVTPPQITAQTYVLMDYNSGAILTALNPDQRQYPASLTKMMTSYVVGVALKQGKIHNTDMVTIGESAWGRNFPDSSKMFLDLNTQVSVADLNRGVIVVSGNDATVALAEHISGNVPNFVETMNKYVQQFGLKNTNFTTPHGLDDPNQYSSARDMAIIGAHIIRDLPEEYKIYSEKNFTFNKIKQANRNGLLWDKTINVDGMKTGHTSQAGYNLVASATTSNNMRLISVVMGVPTYKGREVESKKLLQWGFANFETFKTLEAGKEISEQRVYYGDKNSVKLGALMDHFITIPKGKQSEVKARYELADKNLQAPLVKGQVIGKVVYQLDGKDIASANLQVMNDVGEAGIFGKLWDWLVLTVKGLFS | 0.282 | 39 | 0.653091 | In | 0.572 | In | 1.43 | In |
| >0415283bf748e095bc7a76c72a76b77b6ae69648 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGMRSTSYYPVIMTSDVAATAAFYCQHFGFRPLFEADWYVHLQSAEDPAVNLAILDGQHSTIPAAGRGQVSGLILNFEVDDPDREYARLQQAGLPILLTLRDEDFGQRHFITADPNGVLIDIIKPIPPSANYAAQYAGGAAAAQP | 0.571 | 21 | 0.717124 | S | 0.596 | In | -0.28 | S |
| >18db08486e6bb7c90ed5178b5466012a1b8597e1 |  |  |  |  |  |  |  |  |
| MGNAQERPSETIDRERKRLVETLQADSGLLLDALLARGVLTGPEYEALDALPDAERRVRRLLLLVQGKGEAACQELLRCAQRTAGAPDPAWDWQHATGTAAMTLHAQATGRRRHPARGPHAPGCPELQTLTRPGALRAPRRCNPGPRRSQSQSWKLRPLKRLNRSRSQSQSWNPRLKQNQSRNWSQNRTQSPSPTSRKGTSPKIPEGQSSDRRCPAHAG | 0.37 | 89 | 0.725951 | S | 0.642 | In | 0.84 | In |
| >f88318df9c12f0fbadc05dcc7fe0b0cff9803f5e |  |  |  |  |  |  |  |  |
| MNIFTEAAKLEEQNCPFAMAQIVDSRGSTPRHSAQMLVRADGSIVGTIGGGMVERKVIEESLQALQERKPRLFHGRMARNGADAVGSDCGGAMSVFISVHGMRPRLVLIGAGHVNRAIAQSAALLGFDIAVADIYRESLNPELFPPSTTLLHAESFGAAVEALDIRPDNFVLIATNNQDREALDKLIEQPIAWLGLLASRRKVQLFLRQLREKGVAEEHIARLHAPVGYNIGAETPQEIAISVLAEILQVKNNAPGGLMMKPSHPSGHQLVVIRGAGDIASGVALRLYHAGFKVIMLEVEKPTVIRCTVAFAQAVFDGEMTVEGVTARLATSSAEAMKLTERGFIPVMVDPACSLLDELKPLCVVDAILAKQNLGTRADMAPVTIALGPGFTAGKDCHAVIETNRGHWLGQVIYSGCAQENTGVPGNIMGHTTRRVIRAPAAGIMRSNVKLGDLVKEGDVIAWIGEHEIKAPLTGMVRGLLNDGLAVVGGFKIGDIDPRGETADFTSVSDKARAIGGGVLEALMMLMHQGVKATKEVLEVA | 0.515 | 42 | 0.701034 | In | 0.559 | S | 0.55 | In |
| >ecd8d923893b25750dea20d3926b39cfdff292cf |  |  |  |  |  |  |  |  |
| MILDKVNSPEDLKRLSLEELLLLAEEIRSEIIRVTAQNGGHLASSLGAVELVLALHRVFDSPRDRILFDVGHQAYAHKLVTGRKDRFHTLRKEGGISGFTKVSESPHDAITAGHASTSLANALGMVLARDLMGEDYHVVAVIGDGALTGGMALAALNKIGELQKRMLIVLNDNEMSISENVGALNKYFKELQIRKWVQDAEKLGKNILERISPQLFGLVDRAKEAAKFLLHQENPFYAWGIRYVGPVDGHDLKGLVHILEHLKALDGPTLLHVVTKKGKGYKVAEADPIYWHGPPGFDPKKPEKVSKGYTWSQAFGDAVTELAHMEPRLFVLTPAMREGSGLVRYSLEHPERYLDVGICEDVAVTTAAGLALRGMKPIVAIYSTFLQRAYDQVIHDVAIENLPVVFAIDRAGIVGADGATHHGVFDIAYLRTVPNLQIAAPKDALELRAMLKKALEVGGPVAIRYPRDNVERAPEGVWPEIAWGKWEVLKEGTEAYILAFGKTLRYALEAAGDDPRVGVVNARFLKPLDREMLRELSRYKLLTVEDHQKMGGFGSAVLEALNEMGLKPEVQILGLPDRFFEHGAIPSLHRQAGIDAEGIRKALAAMGVALVHERA | 0.644 | 68 | 0.599601 | S | 0.655 | S | 0.15 | In |
| >83eedc2134fba7cfb0887eec16178912e2bff805 |  |  |  |  |  |  |  |  |
| MHWIFKKEPNISVQQNPTKENVSDVSMIEINNLTALERDEKVETEDINTNVIANTYTVQANVPTAFQTSETNSNTVTNVPKSPELISIQRLERLKNRYTFL | 0.503 | 91 | 0.568718 | In | 0.587 | In | 0.34 | In |
| >1c2890c214c466c65cabb8faec7891e6566157b7 |  |  |  |  |  |  |  |  |
| MAPFGRNLLKTRHKNRSPTKDMDSEEKEIVVWVCQEEKLVCGLTKRTTSADVIQALLEEHEATFGEKRFLLGKPSDYCIIEKWRGSERVLPPLTRILKLWKAWGDEQPNMQFVLVKADAFLPVPLWRTAEAKLVQNTEKLWELSPANYMKTLPPDKQKRIVRKTFRKLAKIKQDTVSHDRDNMETLVHLIISQDHTIHQQVKRMKELDLEIEKCEAKFHLDRVENDGENYVQDAYLMPSFSEVEQNLDLQYEENQTLEDLSESDGIEQLEERLKYYRILIDKLSAEIEKEVKSVCIDINEDAEGEAASELESSNLESVKCDLEKSMKAGLKIHSHLSGIQKEIKYSDSLLQMKAKEYELLAKEFNSLHISNKDGCQLKENRAKESEVPSSNGEIPPFTQRVFSNYTNDTDSDTGISSNHSQDSETTVGDVVLLST | 0.593 | 97 | 0.595282 | In | 0.647 | S | -0.91 | S |
| >de339021fbf2cf9720585af60cb9cfe07c6f1448 |  |  |  |  |  |  |  |  |
| MEKEEETTRELLLPNWQGSGSHGLTIAQRDDGVFVQEVMRNSPAARTGVVKEGDQIVGATIYFDNLQSGEVTQLLNTMGHHTVGLKLHRKGDRSPEPGQTWTHEVFSSRSSEVVLNTVQPSSLNCNDQNKPKEAINKAGAASDSTPDAGSAFQPQGSPGLQICLSTLTSSCLALSA | 0.759 | 90 | 0.623904 | S | 0.63 | S | 1.04 | In |
| >01556a42a6b5c07e63d87ae14649c4c2e83344e6 |  |  |  |  |  |  |  |  |
| MSLVLIKVENHEGKNVNANKFEPFFFVLFGDIQYGMIRGNHGWYEERELLKSAIEKTNKLKPPFVVALGDLTNKFPLDPIQTNQITDLKNDFKLLDKDIDLYVFCGNHDVGNKPSMEGMEYFEEQWGDSYYSFVYNNCAFIVLNSPILYDETHVKEMKEEQLKWLEKTLEKLHSLNVKHKFLLLHHALMYDDIYEGENIGLIYGDKFHNYSEKNEFHLKKEPRLFIYELMKKYKVTHVFCAHLHANRENDIDHNIKQITISAVGMQAKDDKSGIFIVQVTEDKVDYKYYPFEEGHHHHHH | 0.734 | 98 | 0.832365 | S | 0.79 | In | -0.9 | S |
| >2a2c63637132802e0616986d87e2de723d03b6a1 |  |  |  |  |  |  |  |  |
| MDPVDPNIEPWNHPGSQPKTACNRCHCKKCCYHCQVCFIKKGLGISYGRKKRRQRRRPSQGGQTHQDPIPKQPSSQPRGDPTGPKE | 0.705 | 100 | 0.917444 | S | 0.66 | In | 0.42 | In |
| >2469f14150008917107fbd880d6ac966f67bcca1 |  |  |  |  |  |  |  |  |
| WDGKIDGTGTHAMIVTQGVSILENDLSKNEPESVRKNLEILKENMHELQLGSTYPDYDKNAYDLYQDHFWDPDTDNNFSKDNSWYLAYSIPDTGESQIRKFSALARYEWQRGNYKQATFYLGEAMHYFGDIDTPYHPANVTAVDSAGHVKFETFAEERKEQYKINTVGCKTNEDFYADILKNKDFNAWSKEYARGFAKTGKSIYYSHASMSHSWDDWDYAAKVTLANSQKGTAGYIYRFLHDVSEGNDPSVGKNVKELVAYISTSGEKDAGTDDYMYFGIKTKDGKTQEWEMDNPGNDFMTGSKDTYTFKLKDENLKIDDIQNMWIRKRKYTAFPDAYKPENIKVIANGKVVVDKDINEWISGNSTYNIK | 0.766 | 52 | 0.635617 | S | 0.516 | In | -0.17 | S |
| >a5d90a62cb701eadf8037ebe0f92c47cacaf85b4 |  |  |  |  |  |  |  |  |
| MGPKESSSAKSSSKGSELVVWEDKEKSNGIKDAVAAFEKEHDVKVKVVEKPYAKQIEDLRMDGPAGTGPDVLTMPGDQIGTAVTEGLLKELHVKKDVQSLYTDASIQSQMVDQKLYGLPKAVETTVLFYNKDLITEKELPKTLEEWYDYSKKTADGSKFGFLALFDQIYYAESVMSGYGGYIFGKAKDGSYNPSDIGINNEGAVKGAALIQKFYKDGLFPAGIIGEQGINVLESLFTEGKAAAIISGPWNVEAFSNAGINYGITKLPKLENGKNMSSFIGVKSYNVSAFSKNEELAQELAVFLANEKNSKTRYEETKEVPAVKSLANDPAIMKSEAARAVTEQSRFSEPTPNIPEMNEIWTPADSALQTVATGKADPKQALDQAAETAKGQIKAKHSGKLEHHHHHH | 0.793 | 99 | 0.712056 | S | 0.583 | S | 0.58 | In |
| >ef576e463d5779a5c4c393803b94a4655d2581f1 |  |  |  |  |  |  |  |  |
| EHGLLVHKAVDKWTTEEVVLWLEQLGPWASLYRDRFLSERVNGRLLLTLTEEEFSRAPYTIENSSHRRVILTELERVR | 0.805 | 78 | 0.927568 | S | 0.539 | S | -0.98 | S |
| >fd1e3b38641fdd43e063b2bbce3631cea1d5d203 |  |  |  |  |  |  |  |  |
| MEAEAEAEAMPARAPRRLVQGPRGTWLLGSLWVWVLCGLGMAGSLGTPQPCQAPQQWEGRQVLYQQSSGHNNRALVSYDGLNQRVRVLDERKALIPCKRLFEYILLYKEGVMFQIEQATKQCAKIPLVESWDPLDIPQNSTFEDQYSIGGPQEQILVQEWSDRRTARSYETWIGVYTAKDCYPVQETFIRNYTVVMSTRFFDVQLGIKDPSVFTPPSTCQAAQPEKMSDGCSLLEQKLISEEDLNSALEQKLISEEDLNSAVDHHHHHH | 0.723 | 42 | 0.785859 | S | 0.752 | In | -0.37 | S |
| >4707e9d65ecd71bd7cad9ebe2c13d4201a56783e |  |  |  |  |  |  |  |  |
| MTSTVEFINRWQRIALLSQSLLELAQRGEWDLLLQQEVSYLQSIETVMEKQTPPGITRSIQDMVAGYIKQTLDNEQLLKGLLQQRLDELSSLIGQSTRQKSLNNAYGRLSGMLLVPDAPGASLEHHHHHH | 0.463 | 18 | 0.930892 | S | 0.747 | S | 0.04 | In |
| >53874ac66522f558cc26bb6c4cd45449c8438803 |  |  |  |  |  |  |  |  |
| MVDNRMRFTIDQNMQFPLVEIDLEHGGSVYLQQGSMVYHTENVTLNTKLNGKGSGLGKLVGAIGRSMVSGESMFITQAMSNGDGKLALAPNTPGQIVALELGEKQYRLNDGAFLALDGSAQYKMERQNIGKALFGGQGGLFVMTTEGLGTLLANSFGSIKKITLDGGTMTIDNAHVVAWSRELDYDIHLENGFMQSIGTGEGVVNTFRGHGEIYIQSLNLEQFAGTLKRYLPTSSNLEHHHHHH | 0.524 | 30 | 0.752978 | In | 0.9 | S | 0.91 | In |
| >4949cdeb98f92a19ecdb75eafb36fcfc516edbfe |  |  |  |  |  |  |  |  |
| MSKVCEISGKRPIVANSIQRRGKAKREGGVGKKTTGISKRRQYPNLQKVRVRVAGQEITFRVAASHIPKVYELVERAKGLKLEGLSPKEIKKELLKLL | 0.856 | 98 | 0.965702 | In | 0.521 | In | -2.64 | S |
| >7e8f92bb2fd0f44957e2bc8a1cc487f89ce4a5fb |  |  |  |  |  |  |  |  |
| MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFGVQVQYKHLSELLKRTALHGESNSVLIIGPRGSGKTMLINHALKELMEIEEVSENVLQVHLNGLLQINDKIALKEITRQLNLENVVGDKVFGSFAENLSFLLEALKKGDRTSSCPVIFILDEFDLFAHHKNQTLLYNLFDISQSAQTPIAVIGLTCRLDILELLEKRVKSRFSHRQIHLMNSFGFPQYVKIFKEQLSLPAEFPDKVFAEKWNENVQYLSEDRSVQEVLQKHFNISKNLRSLHMLLMLALNRVTASHPFMTAVDLMEASQLCSMDSKANIVHGLSVLEICLIIAMKHLNDIYEEEPFNFQMVYNEFQKFVQRKAHSVYNFEKPVVMKAFEHLQQLELIKPMERTSGNSQREYQLMKLLLDNTQIMNALQKYPNCPTDVRQWATSSLSWL | 0.301 | 66 | 0.645956 | In | 0.926 | In | 0.76 | In |
| >7111a83d0d572b02423067f14f6e9d263fcd6fc9 |  |  |  |  |  |  |  |  |
| MSLNKLLSQLASVEILTPKIDDTLWFFKDILGLHEVGRKDRSVYLRGWEDWYAYSLKVTESDTAGVKEIVWRTYSEKDLIDSINIVNSNGLGLGWDEGEPDMGVGKGYKFILPSGQIGKLVWEMKIWRASGELRSGYKARPMKKPTKGVQAKDLSHIFIFAYNDESLAKTVELLKRLTFKVNEILKEGDKRIAYWMAVNGTAHDLAVSLDPSGVPARLNHVTFNVDYADDILKAADFYTDYGLEIVGGPLRHGITDSHSLYVKEPGGNVIELLHGGYLNVVPDWEPIVWDTKEDENRWLYYWGHVKEAFWHGSPIPANRVSDELKEIVRQKLGAKEGHHHHHH | 0.776 | 57 | 0.927329 | S | 0.588 | S | 0.26 | In |
| >da15e5aa53246692e230934c255a7f73cf647d8d |  |  |  |  |  |  |  |  |
| MSLKPQNYPYGVPSEPWEESFGNHRAVLQIEKPAQIANLDFQWRRPDKDAGHRRFLIIHAATGDTIRNIRRIEVNDEHCRLQFGPVEQKGTYYFYYLPYQVQKGYGFYSGGYLPKENEPDAAWQAQGVSTLKSTRAKVVRVESRQAFDSFYPMEVAATAREKENYINRHKASLYLFAEDRRFPIRMRSNLPTKWLADKQGKLFRGEAAPNEYYTFQIGLWAAVNQADKIAYRASSLKCGREIIPATAITCFNVEGTDPYGKAFKKEVNVPKGEVQALWFGIDIPDGQKEGIYTGTITLSDADGAQSSIPLSIRIAGKALPDRGDSELWRCSRLRWLNSTLGIADTPTAPYTAMTVNENRIGCLGRSITIDEGTGLPAQIRSWNNDVLSSPIEFVIQTAGGVKSLKAVPELTERTEGHVAGNWKAEDEDMTVSCKAIMEFDGWINYIYTITPKKQIQVKDVRLVLPVRNEIGTYFLGMGLPGQPTPQQYDGKWDAPEKTVNNFGVSIPTSKEQQWLWPFDSFWIGNEHAGIHCEFRGSTYSGPLLNLYRPAYPESWFNGGKGGFAIRKEADGVKAVAYSGERMLEAGSSITFDFAMIITPVKMLDMKSQFTDRYYHNGPKPTPSQADIEAGVRIINVHQGNDYNPFINYPFLTVDKMKEFTKEWHARGCKIKIYYTLRELSNATAEIWAIRSLGNEILRGGNGGGFPWCREHFVTNYTPQWYEHFDNADKQGITADASILTAEGDSRWYNYYIEGLRWMVQNMDIDGIYLDDVSFDRRILKRMRRAMESVKPGCLIDLHSNTGFSRGPANQYTEFFPYVDKLWFGESFLYDKMTPANWLVESSGIPFGLSGDMLYRGGNAWLGMQYGMTVRYPWYTEGVNCDPRQVWKIWDSFGIAEATMLGFWEEHPAVSTSDEAVKVTVYRKPEKVLLSLGNYSDEVKTVKLNIDWKQIGLNPQKAKLTAPEIPDMQQAHEWNVDTPIVTAPRKGWIIYLTSEGHHHHHH | 0.487 | 18 | 0.759437 | In | 0.593 | In | 1 | In |
| >c7dd94163919d8abf7465fa69ee3019861c06a97 |  |  |  |  |  |  |  |  |
| MYKNVPIWAQKWKPTIKALQSINVKDLKIDPSFLNIIPDDDLTKSVQDWVYATIYSIAPELRSFIELEMKFGVIIDAKGPDRVNPPVSSQCVFTELDAHLTPNIDASLFKELSKYIRGISEVTENTGKFSIIESQTRDSVYRVGLSTQRPRFLRMSTDIKTGRVGQFIEKRHVAQLLLYSPKDSYDVKISLNLELPVPDNDPPEKYKSQSPISERTKDRVSYIHNDSCTRIDITKVENHNQNSKSRQSETTHEVELEINTPALLNAFDNITNDSKEYASLIRTFLNNGTIIRRKLSSLSYEIFEGSKKVM | 0.671 | 72 | 0.755153 | In | 0.913 | In | 1.28 | In |
| >7e365793e2c5b420fd06f5678e7dafaea97df6fb |  |  |  |  |  |  |  |  |
| MSLSFYEFMQSFLGDDTPLGELVDWINQDSNFPREVKSHSEILSYFRTNPCPESISVPVIKRALSVFNQFTNVQEGHHHHHH | 0.873 | 60 | 0.506259 | S | 0.596 | S | -0.07 | S |
| >24c534cc77b729bfda67288fbfb59c4a5eae5bd0 |  |  |  |  |  |  |  |  |
| MCESGDDEMKRSCVFRVRWGKESFSIQISATATLWELKQELLKRTNVLPDRQKILGLTLRPYLLADTVTLQEVCNKNEYNLILMGTPEEQLQQIYNHAPFPEIVDDVEGESHRTEIVHFEKCMETLERNIKQLQITLMNELRPQKRLLVLDLDNTLMHNSYSTTIQDAIRPGVHEMLSTVYPFYDICIWSQTSWRWLEAKITEMGLLLCPHYAISFVLDRLAMASVTVRKKRQLKKHSVKPLQVVWRKFPDHFSPQNSIHVDDLSRNFVLNPENGLKVSPYTTKDTNDRELFLLTNYLVLIAQREADFSKVNHKKWKHYERKHRRELDNIFQTFF | 0.332 | 56 | 0.753522 | In | 0.941 | In | 0.25 | In |
| >6e1bd59b619c74f982d3ac7ee656b3fce311baa9 |  |  |  |  |  |  |  |  |
| MAHHHHHHMSRTSVPPKVGQRPGIGVEKTTNPKVFFDISIDNKAAGRIVMELYADTVPKTAENFRALCTGEKGKGRSGKPLHYKSSVFHRVIPNFMIQGGDFTRGNGTGGESIYGTTFRDESFSGKAGRHTGLGCLSMANAGPNTNGSQFFICTAATPWLDGKHVVFGRVIDGLDVVKKVERLGSSSGKTRSRIVVSDCGEVAADKSKGQRPPQQQHQPAKASADMKRAADKKAVAEKLLASSPAAEGQKALSAKKETPPQVAAPSEAKKRMRAVDEEETRLARLREKKAKLAALRSSAAGNE | 0.483 | 91 | 0.596269 | In | 0.749 | In | 1.25 | In |
| >2d997d0764a509c6057fb6b233c8fb403551b7aa |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGLVPRGSHMASMGSSHHHHHHSSGLVPRGSHMASMPMQMFMQVYDEIQMFLLEELELKFDMDPNRVRYLRKMMDTTCLGGKYNRGLTVIDVAESLLSLSPNNNGEEDDGARRKRVLHDACVCGWMIEFLQAHYLVEDDIMDNSVTRRGKPCWYRHPDVTVQCAINDGLLLKSWTHMMAMHFFADRPFLQDLLCRFNRVDYTTAVGQLYDVTSMFDSNKLDPDVSQPTTTDFAEFTLSNYKRIVKYKTAYYTYLLPLVMGLIVSEALPTVDMGVTEELAMLMGEYFQVQDDVMDCFTPPERLGKVGTDIQDAKCSWLAVTFLAKASSAQVAEFKANYGSGDSEKVATVRRLYEEADLQGDYVAYEAAVAEQVKELIEKLRLCSPGFAASVETLWGKTYKRQK | 0.494 | 50 | 0.645853 | In | 0.924 | In | -0.54 | S |
| >7dc7c463ce627014a08169983600c9221fc96d00 |  |  |  |  |  |  |  |  |
| DAHSLRCNLTIKDPTPADPLWYEAKCFVGEILILHLSNINKTMTSGDPGETANATEVKKCLTQPLKNLCQKLRNKVSNTKVDTHKTNGYPHLQVTMIYPQSQGRTPSATWEFNISDSYFFTFYTENMSWRSANDESGVIMNKWKDDGEFVKQLKFLIHECSQKMDEFLKQSKEK | 0.783 | 83 | 0.65325 | In | 0.567 | In | 1.12 | In |
| >e01a9e457e4bf08f7c57c4dfdaf4339cdf118d3c |  |  |  |  |  |  |  |  |
| MGSHHHHHHSQDPMAYSTREILLALCIRDSRVHGNGTLHPVLELAARETPLRLSPEDTVVLRYHVLLEEIIERNSETFTETWNRFITHTEHVDLDFNSVFLEIFHRGDPSLGRALAWMAWCMHACRTLCCNQSTPYYVVDLSVRGMLEASEGLDGWIHQQGGWSTLIEDNIPG | 0.288 | 28 | 0.650962 | In | 0.64 | S | -1.27 | S |
| >419656d79277fe9c7490d21118865f5c6dcd28ad |  |  |  |  |  |  |  |  |
| SDFSRNLYDIGEQLDSEDLASLKFLSLDYIPQRKQEPIKDALMLFQRLQEKRMLEESNLSFLKELLFRINRLDLLITYLNTRKEEMERELQTPGRAQISAYRVMLYQISEEVSRSELRSFKFLLQEEISKCKLDDDMNLLDIFIEMEKRVILGEGKLDILKRVCAQINKSLLKIINDYEEFSKGEELCGVMTISDSPREQDSESQTLDKVYQMKSKPRGYCLIINNHNFAKAREKVPKLHSIRDRNGTHLDAGSHSVAQAGVQWCDLGSLQPPPPWFG | 0.721 | 81 | 0.666502 | In | 0.53 | In | 0.04 | In |
| >fda12401fb2f9b63520613fe6b298b8a995e85a7 |  |  |  |  |  |  |  |  |
| MPFRTLLAVQAEARPEHYRTAEAFRERVFALLEPLSGTPAPRLAAFPELFGLPLLLHLDGGLAPKALLLDPLLPWRRARRAYGVFLEVMAEAAQAFGAYLLAGSLLSPPYEEELARGRFSRTPFFQNLALFFNPKGRLLAQVPKMELTPPERWLRRGRFGPHLVETEAGKVGILICLDGFYERHLARLDALGAEILLQPSANPAPWERPWPPDPARKEGEVWVASAQARLLGREHLRLLLNPMLNGEVAGLGFQGRSGIYAPGEALLLAQAPTGDEALLLRL | 0.403 | 21 | 0.9835 | S | 0.573 | In | 1.11 | In |
| >13db5da5345e2dd2b73dd711a0e7e8e3cb6fc8fa |  |  |  |  |  |  |  |  |
| KYELTLQRSLPFIEGMLTNLGAMKLHKIHSFLKITVPKDWGYNRITLQQLEGYLNTLADEGRLKYIANGSYEIV | 0.711 | 9 | 0.76334 | In | 0.766 | S | 1.33 | In |
| >5c30a7d3324bcfaf10b2888681283d7a3194b83a |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMLCYVNYKRVKRPVEIPNLEVEIGFGRGDFIVKLAKENPDKNFFGIEISQISIEKLMKRVGKKGLKNVYCTNVDAYWGFYFLFRDNYVENIYMNYPDPWFKKRHHKRRLTKPERLYMFAKKLKLGGEIRIRTDNYEFLEFTKESAKVLDCFEVEEGTLNVKEPLTKYEQKWLSMGKTLYKLILRKVKEPKFVEHPEVEEVRELFPVKVKVESVDPKKIESREIKLDEEVYFKTFKVWQRDKDFLVECLLSEKGYLQKFFIQIKRKEDGYVIDVSPYSEVLRTRNLQRSIQTVAQLLS | 0.452 | 96 | 0.577661 | S | 0.97 | In | 0.44 | In |
| >b29e34fe1608455ad93fb37b6f0d841314711368 |  |  |  |  |  |  |  |  |
| MKCVVCGKNEAVEHGVCSQCLFDRANIENIGNVNIAICPKCGSVRIGKKWYREDYADHLLPLIMDEVKCSDPEAKISGDPKSVYFDESNRNLVLKVNITRDHMDPKVQTVSVPYSVNYISCPTCNKLTGSYFEATIQLRTVSTKYDEILSEVLDSIEKIMEKRRKMDASSFISKIERKPEGVDIYLGKKGDGDLVSSFILDHYFATLIVSKSLAGVKEGRKFFRFTYSLRILDAPEGAIVSVDKRKYILTAIRNRHIDVIDVETEERGRINRNVFFSNDGKIVTKEPQVKNFIVISRTEDESQIMDSQTFKIITIKGRAEGNEIRVFTYRGKYFILEHHHHHH | 0.627 | 85 | 0.548643 | S | 0.966 | In | 0.94 | In |
| >c330a4627391ddea0e4333a973e4eadec563f10e |  |  |  |  |  |  |  |  |
| MSTGATIVIDLGKTLSKVSLWDLDGRMLDRQVRPSIPLEIDGIRRLDAPDTGRWLLDVLSRYADHPVTTIVPVGHGAGIAALTDGRLAFPPLDYEQSIPEAVMADYRSQRDPFARTGSPALPDGLNIGSQLWWLDQLHPDVMANATLLPWAQYWAWFLTGRAVSEVTSLGCHSDLWDPQDGDFSPMAKRLGWAARFAPIVRAGDTVGALLPAIAERTGLSPDVQVLAGLHDSNAALLAARGFAEIADNEATVLSTGTWFIAMRLPATPVDTATLPEARDCLVNVDVHGRPVPSARFMGGREIETLIEIDTRRVDIKPDQPALLAAVPEVLRHGRMILPTLMRGFGPYPHGRFAWINRPEDWFERRAAACLYAALVADTALDLIGSTGRILVEGRFAEADVFVRALASLRPDCAVYTANAHNDVSFGALRLIDPGLRPQGELVRIEPLDTGSWADLDTYRNRWQAEVEAAKVEPITLEHHHHHH | 0.465 | 24 | 0.876014 | In | 0.616 | S | -0.41 | S |
| >ea781e8c3393d6831b42bc5ac37f1efaf221a165 |  |  |  |  |  |  |  |  |
| MATFSLGKHPHVELCDLLKLEGWSESGAQAKIAIAEGQVKVDGAVETRKRCKIVAGQTVSFAGHSVQVVA | 0.723 | 99 | 0.88654 | S | 0.65 | S | 0.69 | In |
| >60258a7b4388535e10ec5a42f4dbd121b8c3224b |  |  |  |  |  |  |  |  |
| AANPYERGPAPTNASIEASRGPYATSQTSVSSLVASGFGGGTIYYPTSTADGTFGAVVISPGFTAYQSSIAWLGPRLASQGFVVFTIDTNTTLDQPDSRGRQLLSALDYLTQRSSVRTRVDATRLGVMGHSMGGGGSLEAAKSRTSLKAAIPLTGWNTDKTWPELRTPTLVVGADGDTVAPVATHSKPFYESLPGSLDKAYLELRGASHFTPNTSDTTIAKYSISWLKRFIDSDTRYEQFLCPIPRPSLTIAEYRGTCPHTS | 0.51 | 55 | 0.70713 | In | 0.846 | In | 2.22 | In |
| >122a8de8614cf8b9deb2ee6bd325b43a8d29997b |  |  |  |  |  |  |  |  |
| MSLAARALVQNRTQVVKLLILEEMDTTEPYYMNLLTGISRELDRNHYALQLVTRNSLNIGQCDGIIATGLRKNDFEGVIKAFEKPLVVFGQNEMGYDFIDVNNEKGTFMATRHVMGLGEREVVFFGIDLDEPFERAREQGYIRAMNKSFKKSNMFRIDNSSKKSECLARELLKSMDNQAAFVCASDRIALGVIRAAQSLGKRIPEDVAVTGNDGVFLDRISSPRLTTVRQPVVEMGEACAKMLLKKMNEDGAAQGSLFFEPELIVRESTLEGHHHHHH | 0.442 | 57 | 0.635982 | In | 0.894 | In | 0.25 | In |
| >fea1d9fb44be6164740848614223a0af43ea9265 |  |  |  |  |  |  |  |  |
| AIAAVCIAVIAKENYPLYIRSTPTENELKFHYMVHTSLDVVDEKISAMGKALVDQRELYLGLLYPTEDYKVYGYVTNSKVKFVMVVDSSNTALRDNEIRSMFRKLHNSYTDVMCNPFYNPGDRIQSRAFDNMVTSMMIQVC | 0.675 | 32 | 0.611185 | In | 0.51 | S | 0.26 | In |
| >f6c8e9588618160ee11a78f99e30cf9653320ad5 |  |  |  |  |  |  |  |  |
| MSLAFATELRPGDRLQIKFPGESAFEKSFQLDHDGKISLPEIGTVKLQGMSLLQARTVLTGKLSNAYKDLSKFDLFLKERRLTVTVLGYVKEPGPVDMPIRANVQMAINSAGGLAQGAQLDKLQIRRSSGIIEFDYKHYLDSGDPSSLPKLEPMDVIFIPASPLIGNVQVEFDARTLTASGDAGEDGEAIKVFGEVHRPGTFAFKEDASVMDMIMRAGGVTRYAGIEQIRVIHQGQPYPFDMREYLDTGNPDLMPKIHQGDVIFIPQATEQVKSGSRTVYVMGEVFKPGAMEMGEGSGFYDLLATAGGPTRFAETRQIRIIRADGKVQPFDLQGYVDSQGRTKLPSIQPGDAILVPEKTDMNEKSWLKVHPNRAVRIIGAVNRPGRYEWASEMTLMDLIAHAGGPIASADTAHLQILQQRKNGNTESVSFDLKSFLDEGHHHHHH | 0.59 | 49 | 0.899482 | S | 0.512 | S | 0.61 | In |
| >7bbd66dd6878f0cc142dad6a0729ec1d5bbe6308 |  |  |  |  |  |  |  |  |
| MGYYDDDAHGHVEADAAPRATTGTGTGSASQTVTIPCHHIRLGDILILQGRPCQVIRISTSAATGQHRYLGVDLFTKQLHEESSFVSNPAPSVVVQTMLGPVFKQYRVLDMQDGSIVAMTETGDVKQNLPVIDQSSLWNRLQKAFESGRGSVRVLVVSDHGREMAVDMKVVHGSRL | 0.373 | 46 | 0.735007 | In | 0.575 | In | 0.66 | In |
| >d50b313bb7debee899cd13fc2a5a2579e7906ac2 |  |  |  |  |  |  |  |  |
| GMFEKQFNHRTLETSLGPVEIEGPVTSQILATYKLDPGLTAFRQPAEQHEALVEIAALEEGRIIIARQGNDIIGYVTFLYPDPYETWSEGNNPYILELGAIEVAARFRGQQIGKKLLEVSMLDPAMEHYLILTTEYYWHWDLKGSGLSVWDYRKIMEKMMNHGGLVFFPTDDPEIASHPANCLMARIGKHVAPEVVAHFDALRLRRRFMYD | 0.744 | 32 | 0.682963 | In | 0.826 | S | -0.86 | S |
| >0cca7110bce7bfe4de3f6b6f524c430293500893 |  |  |  |  |  |  |  |  |
| MSTPDATSPGSQQQDVFDFLGRGAGDAPVVRIDTHGAAVFLEGNRAMKIKRAVKFPFLDYSTLAKRKIACEQELEVGHRFAPTIYRRVVPITRTDKGALQIGGEGPAVEWAVEMMRFDDSATLDHLARAGSLGPGLIDAVADAIAASHQAAPLAATAPWGASIEPILADDTNELAAGGFAAADVAALDNGSRNALGRLRPLLEQRGVAGFVRWCHGDLHLANIVVIDGKPTLFDAIEFDPALASVDVLYDLAFPLMDLLHYGRGSDSAQLLNRYLAVTNADNLDALSALPLLLSMRAAIRAKVMLARPAADETIRRANRAIAESYFELALRLIAPPPPRLIAVGGLSGTGKSVLARALSGNVPPLPGAVVLRSDVARKRLHGVADTERLPATAYTTEVTEAVYRGLVERAAHILKQGHSVIVDAVFSKPEERDAIESVAAGLGISFHGLFLTADLATRVARVAGRTADASDATPEIVRQQQSYAQGVIGWTSIDAGGTPAETLSRAVAALPQTAQVCSTLEHHHHHH | 0.432 | 28 | 0.601241 | S | 0.768 | In | 0.15 | In |
| >5d144daa7e03738f8e060923fe769f407e7c5407 |  |  |  |  |  |  |  |  |
| SLLVLLPPSEGKAASGRGAPLKTGSLSLPGLTAAREAVLGELVELCAGDEEKAREVLGLSEGLRGEVAKNTELLTAGARPAGEIYTGVLYDALDLASLDAAAKRRAARSLLVFSGLWGAVRMTDRIPSYRCSMGVKLPGLGALGAHWRAPMAEVLPEAAGDGLVLDLRSAAYAAAWKPKGEVAARTATVRVLHAPTRKVVSHFNKATKGRIVRSLLATGTAPEGPAELVEALRDLGYEVEAEAPAKGGRPWSLDVLVHEVH | 0.84 | 57 | 0.885402 | S | 0.74 | In | 1.18 | In |
| >b178320eaa62828cbeeac459b3d717d4461d6396 |  |  |  |  |  |  |  |  |
| MSLRDLLSKKSHRQLELLELLFEHKRWFHRSELAELLNCTERAVKDDLSHVKSAFPDLIFHSSTNGIRIINTDDSDIEMVYHHFFKHSTHFSILEFIFFNEGCQAESICKEFYISSSSLYRIISQINKVIKRQFQFEVSLTPVQIIGNERDIRYFFAQYFSEKYYFLEWPFENFSSEPLSQLLELVYKETSFPMNLSTHRMLKLLLVTNLYRIKFGHFMEVDKDSFNDQSLDFLMQAEGIEGVAQSFESEYNISLDEEVVCQLFVSYFQKMFFIDESLFMKCVKKDSYVEKSYHLLSDFIDQISVKYQIEIENKDNLIWHLHNTAHLYRQELFTEFILFDQKGNTIRNFQNIFPKFVSDIKKELSHYLETLEVCSSSMMVNHLSYTFITHTKHLVINLLQNQPKLKVLVMSNFDQYHAKFVAETLSYYCSNNFELEVWTELELSKESLEDSPYDIIISNFIIPPIENKRLIYSNNINTVSLIYLLNAMFIRLDEGHHHHHH | 0.71 | 59 | 0.7 | In | 0.886 | In | -0.85 | S |
| >41a9f1c763e68c25ea232c161ea661f59a26f0f5 |  |  |  |  |  |  |  |  |
| MSLTQHLVITAVGTDRPGICNEVVRLVTQAGCNIIDSRIAMFGKEFTLLMLISGSPSNITRVETTLPLLGQQHDLITMMKRTSPHDHQTHAYTVEVYVESDDKLGLTEKFTQFFAQRQIGMASLSAQTISKDKLHSEQNQFHIAISARVDSGCNLMQLQEEFDALCTALDVQGSLNFIKNSQEGGSHHHHHH | 0.659 | 49 | 0.701858 | In | 0.653 | S | -0.39 | S |
| >00e810f0e4ad6842fa361d18ddf69b7cf899e59e |  |  |  |  |  |  |  |  |
| MGNPSWINVFALVDYRSSSDTLYRVEEGLIPLETFDEINSGDPVVLSSFLNAYRGEDLSLLVIWNHGDWWRGESQKQVKGVAYDFVNLDFFTIKEIKSVLRDSPVTVLGFDACLMGTFEILWELKDCARYVVVSSKEAPGNGWDYSVLRYSKDLSSLLSNIVKRYGEIYGTEYSLSVWDTSKLDEIMLWLDRVAQYMIENNLSPWEFEVERRTAGGSTTELVELGSFAKSLQNSSDVVLREYGEGLYSAIVSARVYGTPDNYTDLTIYLPQNMKNPEYWDDFVALSDFTSESSWDDLIEHWRDKNLEHHHHHH | 0.461 | 17 | 0.770206 | S | 0.609 | S | -1.12 | S |
| >4de88dd87d254ca5f62fc8d149459b69f4e14688 |  |  |  |  |  |  |  |  |
| MHHHHHHSSGVDLGTENLYFQSMGHSNRQSDVRIKFEHNGERRIIAFSRPVKYEDVEHKVTTVFGQPLDLHYMNNELSILLKNQDDLDKAIDILDRSSSMKSLRILLLSQD | 0.436 | 51 | 0.748569 | In | 0.554 | In | 0.08 | In |
| >566bdc7948ac5adac1cc35ee4a8d0370cf902207 |  |  |  |  |  |  |  |  |
| IRYPNGKTFQPKHSVSSQNSQKRAPSYSNRGMTLEDDLNETNKYYLTNQIAVIHKKPTPVQIVNVHYPKRSAAVIKEAYFKQSSTTDYNGIYKGRYIDFEAKETKNKTSFPLQNFHDHQIEHMKQVKAQDGICFVIISAFDQVYFLEADKLFYFWDRKEKNGRKSIRKDELEETAYPISLGYAPRIDYISIIEQLYFSPSSGAKG | 0.471 | 59 | 0.531207 | S | 0.642 | In | 1.71 | In |
| >8560e4fba7cbe08998bb91c2950b88d1511b4122 |  |  |  |  |  |  |  |  |
| MSLFNKDIDNLIIDVEDLCSVSIGWEEGFVSELKPLKNKVTKPKNILLPRFVETHSHFDKSFTWADFPNLESNYGGALSVNLEEHKTRTTDKVLERVEKSLKLAIQNGYRAIRSHIDTYKGQSIDIWIELFKLQKKFSSELTLQYVALAPLEFWDTTDGEDLAKIFSSNGGILGGVIVPPFNKKNTNKFLAKMLFLASKYKLEIDLHIDESIIEPGAGIKVLLETIENSKINSIPITCSHLSSLISLSNREILNLGEKMAEKNIKVIALPLTNFWLLNRSNKTTSLKRPVAPIKQLQKSHVDVSLGSDNVQDPWYPFGNFDPFYMLSCSIPMLQLNPWDRMTLSSIFLAPSRLLNLKWDGLIKKGCPADFVILEAQRWADVFSTNLKRKVYVKGDLYCEGHHHHHH | 0.701 | 71 | 0.799937 | In | 0.946 | In | 1.31 | In |
| >0e8dcd84d53a47c94e12f80abbc6207a0e54be93 |  |  |  |  |  |  |  |  |
| MSKTQEFRPLTLPPKLSLSDFNEFIQDIIRIVGSENVEVISSKDQIVDGSYMKPTHTHDPTHVMDQDYFLASAIVAPRNVADVQSIVGLANKFSFPLWPISIGRNSGYGGAAPRVSGSVVLDMGKNMNRVLEVNVEGAYCVVEPGVTYHDLHNYLEANNLRDKLWLDVPDLGGGSVLGNAVERGVGYTPYGDHWMMHSGMEVVLANGELLRTGMGALPDPKRPETMGLKPEDQPWSKIAHLFPYGFGPYIDGLFSQSNMGIVTKIGIWLMPNPGGYQSYLITLPKDGDLKQAVDIIRPLRLGMALQNVPTIRHILLDAAVLGDKRSYSSRTEPLSDEELDKIAKQLNLGRWNFYGALYGPEPIRRVLWETIKDAFSAIPGVKFYFPEDTPENSVLRVRDKTMQGIPTYDELKWIDWLPNGAHLFFSPIAKVSGEDAMMQYAVTKKRCQEAGLDFIGTFTVGMREMHHIVCIVFNKKDLIQKRKVQWLMRTLIDDCAANGWGEYRTHLAFMDQIMETYNWNNSSFLRFNEVLKNAVDPNGIIAPGKSGVWPSQYSHVTWKL | 0.418 | 28 | 0.513649 | S | 0.621 | In | 1.03 | In |
| >950718d50886b6a61f12b33488bf46f0e14d02a7 |  |  |  |  |  |  |  |  |
| MAIENAQGVIEFDKDGYITHVNKHYLILTGYEAKEILGLHHKSLCDPIYTEQADYQTFWETLHRGHPISGRFHRLGKGNHSFWIQATYSPVMDSDGNVRKIIKYAHNITQNVETEKLEHHHHHH | 0.702 | 63 | 0.797345 | S | 0.702 | S | -0.45 | S |
| >5b1ff9389bc985479e4dad640aac4d81dc7e441d |  |  |  |  |  |  |  |  |
| MGHHHHHHSHGPGLSDMHQYSQWLASRHEANLLPMKEDLALWLTNLLGKEITAETFMEKLDNGALLCQLAETMQEKFKESMDANKPTKNLPLKKIPCKTSAPSGSFFARDNTANFLSWCRDLGVDETCLFESEGLVLHKQPREVCLCLLELGRIAARYG | 0.348 | 97 | 0.527159 | S | 0.5 | S | 0.14 | In |
| >81adfe72678f45078a62b49654ab92b63558d8b0 |  |  |  |  |  |  |  |  |
| SSAPLDAALHALQEEQARLKMRLWDLQQLRKELGDSPKDKVPFSVPKIPLVFRGHTQQDPEVPKSLVSNLRIHCPLLAGSALITFDDPKVAEQVLQQKEHTINMEECRLRVQVQPLELPMVTTIQVMVSSQLSGRRVLVTGFPASLRLSEEELLDKLEIFFGKTRNGGGDVDVRELLPGSVMLGFARDGVAQRLCQIGQFTVPLGGQQVPLRVSPYVNGEIQKAEIRSQPVPRSVLVLNIPDILDGPELHDVLEIHFQKPTRGGGEVEALTVVPQGQQGLAVFTSESG | 0.621 | 74 | 0.923653 | S | 0.685 | S | 0.53 | In |
| >e0a5acb4e0d6fe248424e1a99e8f5ded2f3eab38 |  |  |  |  |  |  |  |  |
| GMFHRRKRPYNTRNYGHDDKKFKSQYIDIMPDFSPSGLLELESNNKEGIALKHVEPQDAISPDNYMDMLGLEARDRTMYELVIYRKNDKDKGPWKRYDLNGRSCYLVGRELGHSLDTDLDDRTEIVVADIGIPEETSSKQHCVIQFRNVRGILKCYVMDLDSSNGTCLNNVVIPGARYIELRSGDVLTLSEFEEDNDYELIFMNV | 0.769 | 74 | 0.637048 | S | 0.713 | S | -0.28 | S |
| >ddfb380c6fbd16dc50bf6ad83e3d759ecfcdb689 |  |  |  |  |  |  |  |  |
| MSLAKILIVDDQKSVLLTLEALLIKDNHLVTACTNSIDALDKLTNEHFDLMITDAIMPGGATGYALIRTVRSNPQLAQLPVILLTGKREKADIERGIESGANDYVVKPVDPELLSAKIQNLLAKSEKDTAHFVEAPVHVKAEWETKTDIMAVSELGMTIKSNIPMPLGMVTRISSSLYDDIGISKLPLRITACEEAKTATETFYRIQVHFVGLTEKELTPLRLWIRSKKTEGHHHHHH | 0.669 | 86 | 0.501574 | S | 0.684 | S | -0.37 | S |
| >a5d7ee164827853901f18f3fbed7dbceb03c3449 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMSPAPYSPTSVISNHSSTGKSLVISEWAYLASGSANVVFEYVGKNPYFQDKVIRLRRRGQVFTTEQVYEYYQNVIYPLFAGMESFLIEVFLQPVTRDFLLAAQNASGIYLNLNEQYCLVMKDLKDGIEMKPKWLTQSPAAPPDWVVCRTCALSRMRGRPVG | 0.234 | 26 | 0.669911 | In | 0.554 | In | 1.8 | In |
| >87dae5fb44b615929281c73fac87cc55efb4e77c |  |  |  |  |  |  |  |  |
| MHTPEVASPSPGDRCREKSSPRPQTRFPSWHRVGDGWRVSIGTARSGCCQVGPCQGSSPLSTLCLAVPAPRYSNMACTQQSGGTTMVTADAPRLCLVNVAEQNGRLDPEEGPLSWHLSLAT | 0.647 | 99 | 0.94844 | S | 0.764 | In | 3.12 | In |
| >bf168159624b41f2ce28317d8573d6577b5d3e39 |  |  |  |  |  |  |  |  |
| MKIKEIKKVTLQPFTKWTGGKRQLLPVIRELIPKTYNRYFEPFVGGGALFFDLAPKDAVINDFNAELINCYQQIKDNPQELIEILKVHQEYNSKEYYLDLRSADRDERIDMMSEVQRAARILYMLRVNFNGLYRVNSKNQFNVPYGRYKNPKIVDEELISAISVYINNNQLEIKVGDFEKAIVDVRTGDFVYFDPPYIPLSETSAFTSYTHEGFSFADQVRLRDAFKRLSDTGAYVMLSNSSSALVEELYKDFNIHYVEATRTNGAKSSSRGKISEIIVTNYEK | 0.427 | 36 | 0.707507 | In | 0.88 | In | 0.77 | In |
| >8551bb31f06299c885c1878b222ce9e1ea581dd3 |  |  |  |  |  |  |  |  |
| SVGGGGKRRPGGEGPQCEKTTDVKKSKFCEADVSSDLRKEVENHYKLSLPEDFYHFWKFCEELDPEKPSDSLSASLGLQLVGPYDILAGKHKTKKKSTGLNFNLHWRFYYDPPEFQTIIIGDNKTQYHMGYFRDSPDEFPVYVGINEAKKNCIIVPNGDNVFAAVKLFLTKKLKEITDKKKINLLKNIDEKLTEAARELGYSLEQRTVKMKQRDKKVVTKTFHGAGLVVPVDKNDVGYRELPETDADLKRICKTIVEAASDEERLKAFAPIQEMMTFVQFANDECDYGMGLELGMDLFCYGSHYFHKVAGQLLPLAYNLLKRNLFAEIIEEHLANRSQENIDQLAA | 0.612 | 97 | 0.92525 | S | 0.703 | In | 0.27 | In |
| >c92f796b2adc780ee3c017a8c687be169e37f225 |  |  |  |  |  |  |  |  |
| MEPDLFYILGNKVRRDLLSHLTCMECYFSLLSSKVSVSSTAVAKHLKIMEREGVLQSYEKEERFIGPTKKYYKISIAKSYVFTLTPEMFWYKGLDLGDAELRDFEISLSGLDTEPSTLKEMITDFIKANKELEKVLEAFKTIESYRSSLMRKIKEAYLKEIGDMTQLAILHYLLLNGRATVEELSDRLNLKEREVREKISEMARFVPVKIINDNTVVLDEDQILRGEGNEED | 0.622 | 85 | 0.650662 | In | 0.64 | S | -0.83 | S |
| >76a6b0d8ed70d36157f9b55360866af6957034e4 |  |  |  |  |  |  |  |  |
| MEMTEMTGVSLKRGALVVEDNDSGVPVEETKKQKLSECSLTKGQDGLQNDFLSISEDVPRPPDTVSTGKGGKNSEAQLEDEEEEEEDGLSEECEEEESESFADMMKHGLTEADVGITKFVSSHQGFSGILKERYSDFVVHEIGKDGRISHLNDLSIPVDEEDPSEDIFTVLTAEEKQRLEELQLFKNKETSVAIEVIEDTKEKRTIIHQAIKSLFPGLETKTEDREGKKYIVAYHAAGKKALANPRKHSWPKSRGSYCHFVLYKENKDTMDAINVLSKYLRVKPNIFSYMGTKDKRAITVQEIAVLKITAQRLAHLNKCLMNFKLGNFSYQKNPLKLGELQGNHFTVVLRNITGTDDQVQQAMNSLKEIGFINYYGMQRFGTTAVPTYQVGRAILQNSWTEVMDLILKPRSGAEKGYLVKCREEWAKTKDPTAALRKLPVKRCVEGQLLRGLSKYGMKNIVSAFGIIPRNNRLMYIHSYQSYVWNNMVSKRIEDYGLKPVPGDLVLKGATATYIEEDDVNNYSIHDVVMPLPGFDVIYPKHKIQEAYREMLTADNLDIDNMRHKIRDYSLSGAYRKIIIRPQNVSWEVVAYDDPKIPLFNTDVDNLEGKTPPVFASEGKYRALKMDFSLPPSTYATMAIREVLKMDTSIKNQTQLNTTWLR | 0.61 | 82 | 0.658765 | In | 0.631 | In | 0.34 | In |
| >c82c9e074b56c411c52b575cc19f024c0a1a0f3d |  |  |  |  |  |  |  |  |
| KSIWCSPQEIMAADGMPGSVAGVHYRANVQGWTKRKKEGVKGGKAVEYDVMSMPTKEREQVIAHLGLST | 0.865 | 92 | 0.910327 | S | 0.587 | In | 1.69 | In |
| >3574f417f32ab9ea48f01afd26b79e046b070fad |  |  |  |  |  |  |  |  |
| MASEARGDKLWGGRFSGSTDPIMEKLNSSIAYDQRLSEVDIQGSMAYAKALEKAGILTKTELEKILSGLEKISEEWSKGVFVVKQSDEDIHTANERRLKELIGDIAGKLHTGRSRNDQVVTDLKLFMKNSLSIISTHLLQLIKTLVERAAIEIDVILPGYDHLQKAQPIRWSQFLLSHAVALTRDSERLGEVKKRINVLPLGSGALAGNPLDIDREMLRSELEFASISLNSMDAISERDFVVEFLSFATLLMIHLSKMAEDLIIYSTSEFGFLTLSDAFSTGSSLMPQKKNPDSLELIRSKAGRVFGRLASILMVLKGLPSTYNKDLQEDKEAVFDVVDTLTAVLQVATGVISTLQISKENMEKALTPEMLATDLALYLVRKGVPFRQAHTASGKAVHLAETKGITINKLSLEDLKSISPQFSSDVSQVFNFVNSVEQYTALAGTAKSSVTTQIEQLRELMKKQKEQAHHHHHH | 0.434 | 61 | 0.632732 | In | 0.582 | S | 0.28 | In |
| >f4d59d126202fb85963144495d07314cbf9411c1 |  |  |  |  |  |  |  |  |
| MWVYRLKGTLEALDPILPGLFDGGARGLWEREGEVWAFFPAPVDLPYEGVWEEVGDEDWLEAWRRDLKPALAPPFVVLAPWHTWEGAEIPLVIEPGMAFGTGHHETTRLALKALARHLRPGDKVLDLGTGSGVLAIAAEKLGGKALGVDIDPMVLPQAEANAKRNGVRPRFLEGSLEAALPFGPFDLLVAALYAELHAALAPRYREALVPGGRALLTGILKDRAPLVREAMAGAGFRPLEEAAEGEWVLLAYGR | 0.811 | 52 | 0.874349 | S | 0.664 | S | -0.48 | S |
| >2de03fecd944799ff309013b9e1efaff07276e90 |  |  |  |  |  |  |  |  |
| GMEPITQAFAQQFSREWIDAWNAHDLDAILSHYADGFEMSSPMIVQIAGEPSGRLRGKEQVGAYWREALRMIPDLHFEWIATLAGVDSVAIHYRGAKGRLALEVFHFGPDRRVVKALAHYAG | 0.649 | 20 | 0.990025 | S | 0.513 | S | -0.41 | S |
| >03a0ebad00c87eeb39e88dc4de44c05c2d268d8e |  |  |  |  |  |  |  |  |
| MSLVSVEWEIYGGGFSSNLSYVKEGLAVLEDGRLIYITPEEFRQLLQGDAILAVYSKTCPHCHRDWPQLIQASKEVDVPIVMFIWGSLIGERELSAARLEMNKAGVEGTPTLVFYKEGRIVDKLVGATPWSLKVEWDREIYGGEGHHHHHH | 0.817 | 53 | 0.909774 | S | 0.887 | S | -0.6 | S |
| >b852cb39cd88ba3b64f51c965ae042e82e2d60de |  |  |  |  |  |  |  |  |
| MSLATPHINAQMGDFADVVLMPGDPLRAKYIAENFLDNAVQVCDVRNMFGYTGTYKGRRISVMGHGMGIPSCSIYVTELIKDYGVKKIIRVGSCGAVNEGIKVRDVVIGMGACTDSKVNRIRFKDHDFAAIADYKMVKAAEEAAKARGIDVKVGNLFSAELFYTPDPSMFDVMDKYGIVGVEMEAAGIYGVAAEYGAKALAICTVSDHIKTGEQTTSEERQNTFNEMIEIALDSVLIGDQAGYEGGSHHHHHH | 0.466 | 67 | 0.542853 | S | 0.636 | In | -0.3 | S |
| >8340a3183fb1b192e5cdc2772af4b74a46218143 |  |  |  |  |  |  |  |  |
| MIDMNLILKKKFQEISEVDDFISKASTETDYFEPSTLSHGIPGIILFLDAYQKVFDINTEQIVHKYIMKLAPYLQSGQYNNSLFGGLSGIAFSMDLASQNGKNYQNILNNIDGHIVNEIENKFDQILQEPLNPLNYDTVSGLAGIGRYLLNRVDENEFNVKALKSILVYFKDIQYSKNSWVVPQESQFLESDKNYFTEGNINLGLAHGVLGPMSLFALCVIKGITIENHQHILKDMYKFIMDEKFCNHERWLQRYDLISERNHFNFIRNGWCYGNTGVMTTLFLIGQALQDDEIIKMSKKVMLQVVNDKDENLISPTICHGLSSQILMLTIMNLNFELNEVSDYITVLINKLISHYKEDYLVNFIDINENKQDVFKSRKVGLLEGELGVYLTLMTLKNTKILNEKNWTNAFLISLEHHHHHH | 0.614 | 47 | 0.776373 | In | 0.561 | S | -0.03 | S |
| >adf5cec38d500dab8ec075f228c8ed9272eb8551 |  |  |  |  |  |  |  |  |
| MPKTLIILAHPNISQSTVHKHWSDAVRQHTDRFTVHELYAVYPQGKIDVAAEQKLIETHDSLVWQFPIYWFNCPPLLKQWLDEVLTYGWAYGSKGKALKGRKIALAVSLGAPAADYRADGAVGCSVAEVLRPFELTAKYCNADYRPPFTFHTIDSNAGYSEAARQEVERSARDYLAWLDALQQTLEHHHHHH | 0.401 | 56 | 0.727017 | S | 0.555 | S | -0.25 | S |
| >5ba0726d2a4ec13fcfd0d3f6d3fbb2a29f7e037a |  |  |  |  |  |  |  |  |
| ADGAALYKSCIGCHGADGSKAAMGSAKPVKGQGAEELYKKMKGYADGSYGGERKAMMTNAVKKYSDEELKALADYMSKL | 0.758 | 100 | 0.959327 | S | 0.525 | S | 1.77 | In |
| >7ab149fd1046775df0526f2aebeda05a08f6718f |  |  |  |  |  |  |  |  |
| SNAMSEANSGPGRVTREQRGHLFLIGLDRAGKRNAFDSAMLADLALAMGEYERSEESRCAVLFAHGEHFTAGLDLMELAPKLAASGFRYPDGGVDPWGVVQPRRSKPLVVAVQGTCWTAGIELMLNADIAVAARGTRFAHLEVLRGIPPLGGSTVRFPRAAGWTDAMRYILTGDEFDADEALRMRLLTEVVEPGEELARALEYAERIARAAPLAVRAALQSAFQGRDEGDDAALSRVNESLAALIGSEDVREGVLAMV | 0.695 | 38 | 0.545312 | S | 0.777 | In | -0.4 | S |
| >942250d34a2d608583550c89e9b545e84bc11802 |  |  |  |  |  |  |  |  |
| GMQAPRLRVGIFDDGSSTVNMAEKLDSVGHYVTVLHAPEDIRDFELVVIDAHGVEGYVEKLSAFARRGQMFLHTSLTHGITVMDPLETSGGIVMSAHPIGQDRWVASALDELGETIVGLLVGELGGSIVEIADDKRAQLAAALTYAGFLSTLQRDASYFLDEFLGDPDVTSDIVMDSAQQFQALPSLDEVIAQYDSINNPGRQRLFRDLARRQAEISRAQDIELWAIQKEDR | 0.694 | 34 | 0.510397 | S | 0.725 | S | -1.9 | S |
| >3f0e30f314df1762111f8eea9f86b8d412d93816 |  |  |  |  |  |  |  |  |
| SATVQEKAAALNLSALHSPAHRPPGFSVAQKPFGATYVWSSIINTLQTQVEVKKRRHRLKRHNDCFVGSEAVDVIFSHLIQNKYFGDVDIPRAKVVRVCQALMDYKVFEAVPTKVFGKDKKPTFEDSSCSLYRFTTIPNQDSQLGKENKLYSPARYADALFKSSDIRSASLEDLWENLSLKPANSPHVNISATLSPQVINEVWQEETIGRLLQLVDLPLLDSLLKQQEAVPKIPQPKRQSTMVNSSNYLDRGILKAYSDSQEDEWLSAAIDCLEYLPDQMVVEISRSFPEQPDRTDLVKELLFDAIGRYYSSREPLLNHLSDVHNGIAELLVNGKTEIALEATQLLLKLLDFQNREEFRRLLYFMAVAANPSEFKLQKESDNRMVVKRIFSKAIVDNKNLSKGKTDLLVLFLMDHQKDVFKIPGTLHKIVSVKLMAIQNGRDPNRDAGYIYCQRIDQRDYSNNIEKTTKDELLNLLKTLDEDSKLSAKEKKKLLGQFYKCHPDIFIEHFGD | 0.637 | 81 | 0.516772 | In | 0.581 | In | 0.69 | In |
| >f94b5ef0bab9867374b0b01035665bd1c01b7132 |  |  |  |  |  |  |  |  |
| MWNSGFESYGSSSYGGAGGYTQSPGGFGSPAPSQAEKKSRARAQHIVPCTISQLLSATLVDEVFRIGNVEISQVTIVGIIRHAEKAPTNIVYKIDDMTAAPMDVRQWVDTDDTSSENTVVPPETYVKVAGHLRSFQNKKSLVAFKIMPLEDMNEFTTHILEVINAHMVLSKANSQPSAGRAPISNPGMSEAGNFGGNSFMPANGLTVAQNQVLNLIKACPRPEGLNFQDLKNQLKHMSVSSIKQAVDFLSNEGHIYSTVDDDHFKSTDAE | 0.575 | 77 | 0.523315 | S | 0.924 | In | 1.32 | In |
| >70bc92e0e56be8dc270085cdddce595e741681dc |  |  |  |  |  |  |  |  |
| MGSDKIHHHHHHPPEAYSLDTAIFVLETRDYRLSDVKEIDSYGDVEMKGKVAVFETEYGPVFLYVYKGEEAKKIWKKLNGRAGFVSIRSVLDLPNMGKFSTVSNGKKIVAWWRKNWLFIVEGKNGVEEFVKHVYRVYEEMKQ | 0.118 | 87 | 0.907516 | S | 0.613 | S | 0.86 | In |
| >9bd7f786d39c3855d00db255761a51d13e1c6cee |  |  |  |  |  |  |  |  |
| AHHHHHHGSRIREFQEMIKEIYYHKDKKRGVEKTFFWFVEEVGELAEALRKGDREALEEEFADVIAWLASLANLVDIDLEEAAKKKYPGVCPYCGKKPCECEEK | 0.827 | 100 | 0.754034 | S | 0.604 | S | -2.24 | S |
| >2ca483e504d5c35422b5e4409c08e842075cd40c |  |  |  |  |  |  |  |  |
| MQSSLPQFTFKWPKGPEAIILTGTFDDWKGTLPMVKDPSGAFEITLPVTFDSPSSKFYFKFIVDGQWLPSKDYKVNIDEGVENNFITEEDVIKQRENGSSTLVPESAGLAVSKNAPLIEPEAEKRAKKLRKFKIKRVIKTNKQTGERSIFSQEVVELPDSEDETQQVNKTGKNADGLSGTTTIIENNVGVNEEKAIKPYEENHPKVNLVKSEGYVTDGLGKTQSSESRLYELSAEDLEKEEEEEDEDKGGGKDTSTSADAEASEDQNKEPLSKSAKFEKPEEKVPVSSITSHAKETSVKPTGKVATETQTYETKQGAPTAAAKKIEAKKATRPSKPKGTKETPNKGVQKNPAKNGGFFKKLAQLLK | 0.826 | 100 | 0.864367 | S | 0.53 | S | 1.09 | In |
| >68c3e2a1e9c8bef38445105b1cddef21d8c9d7fe |  |  |  |  |  |  |  |  |
| MGNRRLRKSVESYQARIREHQAKIEEELRRPEPRWELIRYWEKEIRTYPGRVERLLRRMGRR | 0.112 | 100 | 0.856372 | S | 0.595 | In | -2.87 | S |
| >1630f10796d6ad857d64a983510ef4618c2256bb |  |  |  |  |  |  |  |  |
| AETKNFTDLVEATKWGNSLIKSAKYSSKDKMAIYNYTKNSSPINTPLRSANGDVNKLSENIQEQVRQLDSTISKSVTPDSVYVYRLLNLDYLSSITGFTREDLHMLQQTNNGQYNEALVSKLNNLMNSRIYRENGYSSTQLVSGAALAGRPIELKLELPKGTKAAYIDSKELTAYPGQQEVLLPRGTEYAVGSVKLSDNKRKIIITAVVFKK | 0.61 | 36 | 0.687592 | In | 0.567 | In | 2.35 | In |
| >682a89cc9682029b8348a5fd531c68d38a82f2b5 |  |  |  |  |  |  |  |  |
| MSLGESVFLAEDKLIAEVLGLSVDGVYVGLLGDTGVKVKLDPNSLVQKHVCILAKTGSGKSYTAGVIIEELLEKNVPLLIIDPHGEYHSMRYPNESVDGDFGVKPKGYEDQIRILAPPISPFAERADELLILDGVNLSAEELIELTGLKNPTAQALLYQALKELKDEDYTIRDIMDEVESIKHNGKWTLLGALAKVEESGLFGEKPTDLRKLLQRGKATIIDLRGVEPTYQDLIVSRVCTKLFELRKEGHITITTDPNSSSVDKLAAALEHHHHHH | 0.783 | 96 | 0.571913 | S | 0.5 | In | -0.91 | S |
| >f643964f4d1410dcb62c51a62fadbf3f55cb902f |  |  |  |  |  |  |  |  |
| MAPLRTKAVEVLQRNSRGAFTVPAHGLYPYQWLWDSAFIALGWTQVDWERAWQELLCLFDYGQGPDGMLPHIVFHEQSRDYFPGPDVWGREARAQPATSGITQPPVVATVVRYLYEKDPDRDRARERARYLFPKLLAFHRWLYHARDPYRTGLVVIVHPWESGMDNSPAWDKPLSRVPVENLPPYERRDVKHVNPEERPRKEDYDRYLSLLYLFRRLEYDPREIYRQSPFKVVDVGFNAILQRANRDLYALAVLLQEDPYEIEEWIVRGEVGLEALWDREAGFYFSWDLVAGEPIAVKTSAGFLPLFAGTPHQGRASLLAQEAERWGEKARYLLPSVDPTSPFFEPGRYWRGPVWINVNWMVAEGFRDYGFAALAARLKADALALMEREGFREYYDPLTGQGRGGEGFSWSAALALFWTR | 0.649 | 22 | 0.50736 | In | 0.706 | S | 0.18 | In |
| >f13051b75ba47954aecee2eb46d4b5d300006d68 |  |  |  |  |  |  |  |  |
| ANIVGGIEYSINNASLCSVGFSVTRGATKGFVTAGHCGTVNATARIGGAVVGTFAARVFPGNDRAWVSLTSAQTLLPRVANGSSFVTVRGSTEAAVGAAVCRSGRTTGYQCGTITAKNVTANYAEGAVRGLTQGNACMGRGDSGGSWITSAGQAQGVMSGGNVQSNGNNCGIPASQRSSLFERLQPILSQYGLSLVTG | 0.68 | 43 | 0.530679 | S | 0.517 | S | 3.36 | In |
| >6d95ed3aa32ac0ec129db68dccd2cedc1aebbcaf |  |  |  |  |  |  |  |  |
| ACLEDFIENARLFIFETFCRIHQCISINMLADKLNMTPEEAERWIVNLIRNARLDAKIDSKLGHVVMGNNAVSPYQQVIEKTKSL | 0.232 | 72 | 0.597882 | S | 0.535 | In | -0.22 | S |
| >a5758023d0b105ed860437b1659fa06ed4327a19 |  |  |  |  |  |  |  |  |
| MAVDSSNSATGPMRVFAIGNPILDLVAEVPSSFLDEFFLKRGDATLATPEQMRIYSTLDQFNPTSLPGGSALNSVRVVQKLLRKPGSAGYMGAIGDDPRGQVLKELCDKEGLATRFMVAPGQSTGTCAVLINEKERTLCTHLGACGSFRIPENWTTFASGALIFYATAYTLTATPKNALEVAGYAHGIPNAIFTLNLSAPFCVELYKDAMQSLLLHTNILFGNEEEFAHLAKVHNLVAAEKVALSVANKEHAVEVCTGALRLLTAGQNTGATKLVVMTRGHNPVIAAEQTADGTVVVHEVGVPVVAAEKIVDTNGAGDAFVGGFLYGLSQGKTVKQCIMCGNACAQDVIQHVGFSLSFTSLPC | 0.495 | 64 | 0.682322 | In | 0.566 | S | 0.57 | In |
| >f408e7e9c69329a8c37a42f6088dd9347fed21ce |  |  |  |  |  |  |  |  |
| MLISNEWLKDYVDAGVKVEDLAERITRTGIEVDNMIDYSKDIKNLVVGYIQSKEKHPDADKLNICQVDIGEEEPVQIVCGAPNVDAGQHVIVAKVGGRLPGGIKIKRAKLRGERSEGMICSLQEIGISSNVVPKAYENGIFVFPTEVEPGTDALTALYLNDQVMEFDLTPNRADALSMVGTAYEVAALYQTEMTKPETQSNETSESATNELSVTIDNPEKVPYYSARVVKNVSIEPSPIWVQARLIKAGIRPINNVVDISNYVLLEYGQPLHMFDQDHIGSKEIVVRQAKDEETMTTLDNNERKLVDTDIVISNGQEPIALAGVMGGDFSEVTEQTTNVVIEGAIFDPVSIRHTSRRLNLRSEASSRFEKGIATEFVDEAVDRACYLLQELASGEVLQDRVSSGDLGSFVTPIDITAEKVNKTIGFNLSNDEIQSIFRQLGFETTLKGETLTVNVPSRRKDITIKEDLIEEVARIYGYDEIPSSLPVFGEVTSGELTDRQHKTRTLKETLEGAGLNQAITYSLVSKDHAKDFALQERPTISLLMPMSEAHATLRQSLLPHLIEATAYNVARKNKDVRLYEIGRVFFGNGEGELPDEVEYLSGILTGEYVVNAWQGKKEEIDFFIAKGVVDRVAEKLNLEFSYKAGKIEGLHPGRTAIVSLGGAGIGFIGELHPQVAADNDLKRTYVFELNYDAMMQVAVGYINYEQIPKFPGVTRDIALEVNHDVPSSELKQIIHNNGEDILQSTLVFDVYEGEHLEKGKKSVAIRLNYLDTEDTLTDERVSKIHDKILEALQAQGATIR | 0.492 | 81 | 0.66586 | S | 0.63 | S | -0.92 | S |
| >d80cccdd4e8da7de2c5d981f11cc76ea443f0dcc |  |  |  |  |  |  |  |  |
| MPKLPPLSLYIHIPWCVQKCPYCDFNSHAQKSDIPEQDYIYHLLQDLQADLQRFKDSIQQRKLHSIFIGGGTPSLFSAESIAYLLKEIKKQIDFEDNIEITLEANPGTVEAERFKGYVSAGIMRISMGIQSFNDDKLQRLGRIHNAAEAKSAVNLAKVSGLKSFNLDLMHGLPNQTLEEALDDLRQAIELSPPHISWYQLTIEPNTMFAYRPPKLPDDDALWDIFEQGHQLLTMAGYQQYETSAYAKAGFQCKHNLNYWRFGDYLAIGCGAHGKLTFPTGEITRFSKTKHPKGYLRGEYLYEEKNVPKIDRPFEFFMNRFRLLEAVPKQEFEDYTGLSQSAVKNQIDFAIQQNYIVENADSWQITEHGKLFLNELLELFLTEELEHHHHHH | 0.455 | 62 | 0.696805 | In | 0.613 | S | -0.42 | S |
| >604249c95eb494a5c242e219a82dd56423bad3db |  |  |  |  |  |  |  |  |
| MKATGIVRRIDDLGRVVIPKEIRRTLRIREGDPLEIFVDRDGDVILKKYSPISELGDFAKEYADALYDSLGHSVLICDRDVYIAVSGSSKKDYLNKSISEMLERTMDQRSSVLESDAKSVQLVNGIDEDMNSYTVGPIVANGDPIGAVVIFSKDQTMGEVEHKAVETAAGFLARQMEQ | 0.538 | 51 | 0.842036 | In | 0.6 | S | -0.72 | S |
| >8672b2178b0893cf325970982a406482bd89a3d8 |  |  |  |  |  |  |  |  |
| MILTDEQQGLLNGDAGDVVAKYFTWLVEWGRLMGAQRLVKVDSVHTSGITAQGRVAGAVSPEARKKTLEQVIEFTSVRMRAPTATHVARVCVEDDKGGGLSAEDQAFQKLVIDRARDAGIQLTWTCAPYIAGILPSKNQICAWTESSAVVYINAMVGARSTRNGTESAIAAAMSGWFPEFGVLLEENRQADLIVEVEAAPSEELCDWGFLGYFAGEVSGLRTPVLDQLRAPSLEEAKQLSAAVATGGGCTMFHIAGVTPEAPTLDAVARRPLERIHYTAADRARIAAKLNTLTSERIDYVVLGCPHATLHEIQVIASQLEGRRVCPNVRLEVWTAWAVRAVAQRMGLVDVIERAGGKVLTDSCPSITRSGHGRRMVTNAVKQGNYLQGMTGHEVAVGKLTDVVSAALTGTWQGLLEHHHHHH | 0.584 | 95 | 0.755149 | In | 0.625 | In | 0.05 | In |
| >8c0530c2c163cc4fa68f70c6966377264ea1ee4d |  |  |  |  |  |  |  |  |
| MKHIKFTEKITIHASAEIIFDVTQDYAQRLRWDTFLKQAELIEGAERAGKGVKAYCAAKNGMGMVTEYVTFNRPKATAINMTKGPYMFESFLGSWNYKHIGENETEVIFLYAFSLRFPFNLIWKIVENNLQRNVRQRLLDLKKYIETNLEHHHHHH | 0.497 | 37 | 0.688905 | In | 0.538 | S | 0.63 | In |
| >c7e01d84317ed17f09e2827a794c98dbca78e98d |  |  |  |  |  |  |  |  |
| MGSSHHHHHHSSGRENLYFQGHMNPIQSRFSSVQELRRSNVDIPALKANGQLEVDGKRYEIRAADDGTISVLRPEQQSKAKSFFKGASQLIGGSSQRAQIAQALNEKVASARTVLHQSAMTGGRLDTLERGESSSATTAIKPTA | 0.576 | 46 | 0.565977 | In | 0.58 | In | 2.44 | In |
| >95ddaacdc7e125f6ca6ce5b915e36ee184869d0a |  |  |  |  |  |  |  |  |
| MSLKEKKGIALIEDDPWLEPYEAEIQDRIIRYKRAVKEIKEHYGDLLTFATGHKYYGINFDEDERGWYYREWAPEAYEVYLTGDFNDWDRRSHPLTRNEFGVWQIFLPYDLYQKRFVHKSKIKVQIVGANGTHDRIPAYITRVVQDTETTDFSGQLWFPQKPFEWTDRDFNLRKIKNPIIYEAHVGMAQEKEGVGTYREFADKIVPRIRQMGYNSIQLMAVMEHPYYGSFGYHVSNFFAPSSRFGTPEDLKYLVDRAHKFGLAVIMDVVHSHAVKNLSEGLNEFDGSDHQYFHPGDRGYHTGWDSKLFDYGKLEVKRFLLSNLRYWLEEYHFDGFRFDGVTSMLYFDHGMKTFDSYDTYFKGGVDFDAVTYLQLANEVTHRYLKDSITIAEDVSGMPGLSRSIRDGGVGFDYRLAMGIPDFWIKYLKHLQDEQWNIYEMWSTLTNRRYKEKTIAYAESHDQAMVGDKTIAFWLMDKEMYFHMQVDDPNPVIDRGIAIHKLLRLFTFALGGEGYLNFMGNEFGHPEWIDFPREGNGWSYQYARRQWSLVDNPKLKYQYLGAFDEAMMRLVRKTRLLAAEPAQQLNMDDHNKVIIFERNNMIFVFNFSVSNSVFDYKFKSFAPGTFEIVLNSDDTRFGGHGRVDDTLEYHTNTEGQLSIYTPNRSVLVFQRKEASEGHHHHHH | 0.522 | 12 | 0.775479 | In | 0.535 | In | -0.32 | S |
| >a4a69139fce9d2a4aeacd2daa7d12938e392b3f8 |  |  |  |  |  |  |  |  |
| SNAMKPADLTNADRIALELGHAGRNAIPYLDDDRNADRPFTLNTYRPYGYTPDRPVVVVQHGVLRNGADYRDFWIPAADRHKLLIVAPTFSDEIWPGVESYNNGRAFTAAGNPRHVDGWTYALVARVLANIRAAEIADCEQVYLFGHSAGGQFVHRLMSSQPHAPFHAVTAANPGWYTLPTFEHRFPEGLDGVGLTEDHLARLLAYPMTILAGDQDIATDDPNLPSEPAALRQGPHRYARARHYYEAGQRAAAQRGLPFGWQLQVVPGIGHDGQAMSQVCASLWFDGRMPDAAELARLAGSQSA | 0.643 | 15 | 0.564971 | In | 0.58 | In | 0.38 | In |
| >d3d07a7b010f770bb9163088fc2b458370bd460e |  |  |  |  |  |  |  |  |
| MGNQVEKLTHLSYKEVPTADPTGVDRDDGPRIGVSYIFSNDDEDVEPQPPPQGPDGGGLPDGGDGPPPPQPQPYDPRLHEVECSVFYRDECIYQKSFAPGSAALSTYTPENLLNKCKPGDLVEFVSQAQYPHWAVYVGNFQVVHLHRLEVINSFLTDASQGRRGRVVNDLYRYKPLSSSAVVRNALAHVGAKERELSWRNSESFAAWCRYGKREFKIGGELRIGKQPYRLQIQLSAQRSHTLEFQSLEDLIMEKRRNDQIGRAAVLQELATHLHPAEPEEGDSNVARTTPPPGRPPAPSSEEEDGEAVAH | 0.495 | 95 | 0.750146 | S | 0.69 | In | 0.64 | In |
| >1b5b2bb67bc9009efc54e63b6ed971ac2e9d675b |  |  |  |  |  |  |  |  |
| MSFESKKPMRTWSHLAEMRKKPSEYDIVSRKLHYSTNNPDSPWELSPDSPMNLWYKQYRNASPLKHDNWDAFTDPDQLVYRTYNLMQDGQESYVQSLFDQFNEREHDQMVREGWEHTMARCYSPLRYLFHCLQMSSAYVQQMAPASTISNCCILQTADSLRWLTHTAYRTHELSLTYPDAGLGEHERELWEKEPGWQGLRELMEKQLTAFDWGEAFVSLNLVVKPMIVESIFKPLQQQAWENNDTLLPLLIDSQLKDAERHSRWSKALVKHALENPDNHAVIEGWIEKWRPLADRAAEAYLSMLSSDILPAQYLERSTSLRASILTV | 0.537 | 39 | 0.803183 | In | 0.687 | In | -0.34 | S |
| >3cb27589ce437dab35a1996785a87521dc457de7 |  |  |  |  |  |  |  |  |
| MVSLLRRTFSEEIKEELVNVPFGSREEVISELLGFIKARGDLDVKSRHIVFSLHSFAASRRLLNLMKYLSKPVSEIIVEKSHNIKKRYIKITAEYSESFMVIEPFFDVALFVSFLRGLFLSGGSMTNPRYHYHLEINLFEEETLALTRKSLKDFFNINAGIIELRNTRKLYIKSIKDILVFLEAIGVQRKLEEIDRIV | 0.5 | 73 | 0.786415 | In | 0.721 | S | 0.96 | In |
| >69bf442a9ed5f7d3266a12196099902b78ddf7c1 |  |  |  |  |  |  |  |  |
| MGSSHHHHHHGGTGENLYFQGGSGMSVLSEAQRTCAALQFLLLDQDSDGFIGSHELGTYLRAIGLYPAQSDIAGYIALVDPEEQGRVSQESALALYEKLYPQRTTPEELYAALKVLDDDADGYLTTTQLRHILVNLGARISQEEAEEILCDVEKDGEGMIMVDDIIQLLMPAEGEERL | 0.728 | 64 | 0.604522 | S | 0.87 | S | -2.96 | S |
| >6fa0a469339020299b63111cd5dd2a733b798719 |  |  |  |  |  |  |  |  |
| MAAGVPKIDALESLGNPLEDAKRAAAYRAVDENLKFDDHKIIGIGSGSTVVYVAERIGQYLHDPKFYEVASKFICIPTGFQSRNLILDNKLQLGSIEQYPRIDIAFDGADEVDENLQLIKGGGACLFQEKLVSTSAKTFIVVADSRKKSPKHLGKNWRQGVPIEIVPSSYVRVKNDLLEQLHAEKVDIRQGGSAKAGPVVTDNNNFIIDADFGEISDPRKLHREIKLLVGVVETGLFIDNASKAYFGNSDGSVEVTEKHHHHHH | 0.667 | 94 | 0.632875 | S | 0.659 | In | 0.41 | In |
| >137f924a7d51c0cc906090d1fb81a65522e74c26 |  |  |  |  |  |  |  |  |
| MSLNYGKYVENTALLDTTDEIKEIVPLTRSFNYTSTPQGYANVFASQYSAEPLKVAVLTSNALEIYCYRTPDEVFESLIENPLPFIHSYGLSEACSTALYLACKFNKSEHIKSSALAFFSAGIPGVVEIKPKSSRESGSVPPISEGHHHHHH | 0.615 | 95 | 0.757874 | S | 0.603 | S | 0.8 | In |
| >532ab6da127928ea63be90fa904cc1b826307616 |  |  |  |  |  |  |  |  |
| MAHHHHHHMTHLTFVDLSRNCGLTDVSAETLARILVETDVETVRLFGTSLTERGGRVIATAAANTTTLVSCELPFTVGSAVLEDIEVCTRRNRAHRAILQNASVHYTRLQVRRSRWPCSPALKHMEANPVVAIDELPSLESKPGASPRSPAIDVAPKVCYTETDRQWRACIHKGRKNALMHTETLLPPSLLSSVPSAQVPSSSAAASVATTKVASTALTRRGKATPDSLDEVTMWDWADPAMSTTLHCLYLLDRQAQLAPNRAASAVAAPNIHGLSHTGPSKKATGGTVRLPYL | 0.246 | 65 | 0.693882 | In | 0.861 | In | 1.42 | In |
| >6a50c17acfcbfd844228eecd82f505429d9a8cca |  |  |  |  |  |  |  |  |
| MSHTDLTPCTRVLASSGTVPIAEELLARVLEPYSCKGCRYLIDAQYSATEDSVLAYGNFTIGESAYIRSTGHFNAVELILCFNQLAYSAFAPAVLNEEIRVLRGWSIDDYCQHQLSSMLIRKASSRFRKPLNPQKFSARLLCRDLQVIERTWRYLKVPCVIEFWDENGGAASGEIELAALNIP | 0.489 | 20 | 0.779531 | In | 0.622 | In | 0.45 | In |
| >89dbe52e88e15db8668fcb759dfce0b32f4d50a0 |  |  |  |  |  |  |  |  |
| MSGADRSPNAGAAPDSAPGQAAVASAYQRFEPRAYLRNNYAPPRGDLCNPNGVGPWKLRCLAQTFATGEVSGRTLIDIGSGPTVYQLLSACSHFEDITMTDFLEVNRQELGRWLQEEPGAFNWSMYSQHACLIEGKGECWQDKERQLRARVKRVLPIDVHQPQPLGAGSPAPLPADALVSAFCLDAVSPDLASFQRALDHITTLLRPGGHLLLIGALEESWYLAGEARLTVVPVSEEEVREALVRSGYKVRDLRTYIMPAHLQTGVDDVKGVFFAWAQKVGLEHHHHHH | 0.676 | 40 | 0.529563 | In | 0.67 | S | 0.42 | In |
| >c1e92c161cff44dc000c7891be8f2de79c823da7 |  |  |  |  |  |  |  |  |
| MGHHHHHHSHMIQCVVCEDWFHGRHLGAIPPESGDFQEMVCQACMKRCSFLWAYAAQLAVTKISTEDDGLVRNIDGIGDQEVIKPENGEHQDSTLKEDVPEQGKDDVREVKVEQNSEPCAGSSSESDLQTVFKNESLNAESKSGCKLQELKAKQLIKKDTATYWPLNWRSKLCTCQDCMKMYGDLDVLFLTDEYDTVLAYENKGKIAQATDRSDPLMDTLSSMNRVQQVELICEYNDLKTELKDYLKRFADEGTVVKREDIQQFFEEFQSKKRRRVDGMQYYCS | 0.663 | 97 | 0.819513 | In | 0.829 | In | -1.44 | S |
| >11e778056abda038f655c3a6d4ae294a95906a41 |  |  |  |  |  |  |  |  |
| MNERWKLKKKPASLEARFEFNDFEKLRAFLDELAEQADLLDHHPNISFGRGHASVIIYSNSEELTEIDYALAKGIDEGFHRVTAYLQGSES | 0.526 | 91 | 0.514939 | In | 0.785 | S | -1.49 | S |
| >dd0eec5a2b13ee73d614a61e219ff59f2f1b2ee6 |  |  |  |  |  |  |  |  |
| GSHMSTEKTKLGVHSEAGKLRKVMVCSPGLAHQRLTPSNCDELLFDDVIWVNQAKRDHFDFVTKMRERGIDVLEMHNLLTETIQNPEALKWILDRKITADSVGLGLTSELRSWLESLEPRKLAEYLIGGVAADDLPASEGANILKMYREYLGHSSFLLPPLPNTQFTRDTTCWIYGGVTLNPMYWPARRQETLLTTAIYKFHPEFANAEFEIWYGDPDKDHGSSTLEGGDVMPIGNGVVLIGMGERSSRQAIGQVAQSLFAKGAAERVIVAGLPKSRAAMHLDTVFSFCDRDLVTVFPEVVKEIVPFSLRPDPSSPYGMNIRREEKTFLEVVAESLGLKKLRVVETGGNSFAAEREQWDDGNNVVCLEPGVVVGYDRNTYTNTLLRKAGVEVITISASELGRGRGGGHCMTCPIVRDPIDY | 0.737 | 51 | 0.785046 | In | 0.653 | S | 0.37 | In |
| >a791e44dfc5302862be08ac7a6d58d274ba2de2f |  |  |  |  |  |  |  |  |
| MSVKAGDVFKYERRFTEEEVFEFANITGDKGRHHVEYDENGRLMVHGLLTASIGTKVGEELHYIARELVSEFIRPVFTGDTITCELTLTNVEQMEGYKKVSIESVYRNQHEKTVLVGTSYGIIRGLEHHHHHH | 0.666 | 77 | 0.840219 | S | 0.764 | S | -1.26 | S |
| >6166d3c03ff2a1bd9c84a279d460789ff0809c15 |  |  |  |  |  |  |  |  |
| MLDMAVSVKNSEGVKLLIEEVAKAVGVSPKELIEYYEWKAHREKLKKSRKRMTKAEARKIIAEWKNEKPRMSEEEAIKLYYEAEEEIKKWEKIERRLKKLGLE | 0.813 | 99 | 0.769874 | S | 0.51 | S | -0.46 | S |
| >05860d467f33b29f0144183160950bdc3149d13a |  |  |  |  |  |  |  |  |
| TPPPAEEEEDELYRQSLEIISRYLREQATGAKDTKPMGRSGATSRKALETLRRVGDGVQRNHETAFQGMLRKLDIKNEDDVKSLSRVMIHVFSDGVTNWGRIVTLISFGAFVAKHLKTINQESCIEPLAESITDVLVRTKRDWLVKQRGWDGFVEFFHVEDLEG | 0.499 | 70 | 0.761125 | In | 0.684 | S | -0.22 | S |
| >f8697eb5a71141711d8eab5a3caf5009ef7ba7ab |  |  |  |  |  |  |  |  |
| MSLNFTDTHCHLADAALRENLPHILTAAREAGVGRFIVPATRPQDWQDVADLAQRLSENPLWGNIHIALGIHPWFSDDVSEPDFQLLEQTLKAHPTAWVGEIGLDFYDKTQTPPQRERQIQVFVRQLEIAQTLRRRVIIHNLKATADIAAAVKQTGFAQGGIVHAFSGSAEEARVLTKLGFKIGIGSLLLNPNARKVRDTLKALNDGDFVLETDSPFMLKKEINTPANIPGIAKIAAEIRGTCVEEIAKVTERNADALLGREGHHHHHH | 0.434 | 51 | 0.898383 | S | 0.615 | S | -0.17 | S |
| >53588de0c4135d0adf866eeef8b7c595b67e27c2 |  |  |  |  |  |  |  |  |
| MAFDDLRSFLHALDQQGQLLKISEEVNAEPDLAAAANATGRIGDGAPALWFDNIRGFTDARVAMNTIGSWQNHAISLGLPPNTPVKKQIDEFIRRWDNFPVAPERRANPGWAENTVDGDAINLFDILPLFRLNDGDGGFYLDKACVVSRDPLDPDNFGKQNVGIYRMEVKGKRKLGLQPVPMHDIALHLHKAEERGEDLPIAITLGNDPIITLMGATPLKYDQSEYEMAGALRESPYPIATAPLTGFDVPWGSEVILEGVIESRKREIEGPFGEFTGHYSGGRNMTVVRIDKVSYRSKPIFESLYLGMPWTEIDYLMGPATCVPLYQQLKAEFPEVQAVNAMYTHGLLAIISTKKRYGGFARAVGLRAMTTPHGLGYVKMVIMVDEDVDPFNLPQVMWALSSKVNPAGDLVQLPNMSVLELDPGSSPAGITDKLIIDATTPVAPDNRGHYSQPVVDLPETKAWAEKLTAMLANRK | 0.515 | 49 | 0.629417 |  | 0.645 | S | 0.3 | In |

Table S2: Protein sequences in FASTA format and the corresponding prediction outputs for the insoluble dataset using different prediction tools.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SEQUENCE | PROSO II | CCSOL (% Probability of being soluble) | | SOLpro (Solubility) | PROSO | | Recombinant Protein Solubility Prediction | |
| Probability | Solubility | (CV-CV') | Solubility |
| >gi|4558107|pdb|1B82|A Chain A, Pristine Recomb. Lignin Peroxidase H8 |  |  | |  |  |  |  |  |
| AAVIEKRATCSNGKTVGDASCCAWFDVLDDIQQNLFHGGQCGAEAHESIRLVFHDSIAISPAMEAQGKFGGGGADGSIMIFDDIETAFHPNIGLDEIVKLQKPFVQKHGVTPGDFIAFAGAVALSNCPGAPQMNFFTGRAPATQPAPDGLVPEPFHTVDQIINRVNDAGEFDELELVWMLSAHSVAAVNDVDPTVQGLPFDSTPGIFDSQFFVETQLRGTAFPGSGGNQGEVESPLPGEIRIQSDHTIARDSRTACEWQSFVNNQSKLVDDFQFIFLALTQLGQDPNAMTDCSDVIPQSKPIPGNLPFSFFPAGKTIKDVEQACAETPFPTLTTLPGPETSVQRIPPPPGA | 0.688 | 90 | | In | 0.82 | In | -0.44 | S |
| >gi|4558111|pdb|1B88|A Chain A, V-Alpha 2.6 Mouse T Cell Receptor (Tcr) Domain |  |  | |  |  |  |  |  |
| MQQVRQSPQSLTVWEGETAILNCSYENSAFDYFPWYQQFPGEGPALLISILSVSNKKEDGRFTIFFNKREKKLSLHIADSQPGDSATYFCAASASFGDNSKLIWGLGTSLVVNP | 0.744 | 44 | | S | 0.557 | S | 1.49 | In |
| >gi|159162544|pdb|1JBJ|A Chain A, Cd3 Epsilon And Gamma Ectodomain Fragment Complex In Single- Chain Construct | | | | |  |  |  |  |
| DDAENIEYKVSISGTSVELTCPLDSDENLKWEKNGQELPQKHDKHLVLQDFSEVEDSGYYVCYTPASNKNTYLYLKARVGSADDAKKDAAKKDDAKKDDAKKDGSQTNKAKNLVQVDGSRGDGSVLLTCGLTDKTIKWLKDGSIISPLNATKNTWNLGNNAKDPRGTYQCQGAKETSNPLQVYYRM | 0.818 | | 100 | S | 0.581 | S | 0.9 | In |
| >gi|18655733|pdb|1KQY|A Chain A, Hevamine Mutant D125aE127AY183F IN COMPLEX WITH PENTA-Nag |  | |  |  |  |  |  |  |
| GGIAIYWGQNGNEGTLTQTCSTRKYSYVNIAFLNKFGNGQTPQINLAGHCNPAAGGCTIVSNGIRSCQIQGIKVMLSLGGGIGSYTLASQADAKNVADYLWNNFLGGKSSSRPLGDAVLDGIDFAIAHGSTLYWDDLARYLSAYSKQGKKVYLTAAPQCPFPDRYLGTALNTGLFDYVWVQFFNNPPCQYSSGNINNIINSWNRWTTSINAGKIFLGLPAAPEAAGSGYVPPDVLISRILPEIKKSPKYGGVMLWSKFYDDKNGYSSSILDSV | 0.624 | | 33 | In | 0.756 | In | 3.14 | In |
| >gi|6435815|pdb|1QJ9|A Chain A, Crystal Structure Of The Outer Membrane Protein Ompx From Escherichia Coli | | |  |  |  |  |  |  |
| ATSTVTGGYAQSDAQGQMNKMGGFNLKYRYEEDNSPLGVIGSFTYTEKSRTASSGDYNKNQYYGITAGPAYRINDWASIYGVVGVGYGKFQTTEYPTYKNDTSDYGFSYGAGLQFNPMENVALDFSYEQSRIRSVDVGTWIAGVGYRF | 0.24 | | 6 | S | 0.558 | In | 1.8 | In |
| MNTPEHMTAVVQRYVAALNAGDLDGIVALFADDATVENPVGSEPRSGTAAIREFYANSLKLPLAVELTQEVRAVANEAAFAFIVSFEYQGRKTVVAPIDHFRFNGAGKVVSMRALFGEKNIHAGA | 0.128 | | 46 | S | 0.604 | S | -0.1 | S |
| >gi|9257149|pdb|1QQY|A Chain A, X-Ray Crystal Structure Analysis Of Canine Milk Lysozyme (Apo-Type) | | |  |  |  |  |  |  |
| MKIFSKCELARKLKSMGMDGFHGYSLANWVCMAEYESNFNTQAFNGRNSNGSSDYGIFQLNSKWWCKSNSHSSANACNIMCSKFLDDNIDDDIACAKRVVKDPNGMSAWVAWVKHCKGKDLSKYLASCNL | 0.826 | | 97 | S | 0.792 | In | 2.78 | In |
| >gi|940301|gb|AAA81591.1| appA [Rhodobacter sphaeroides] |  | |  |  |  |  |  |  |
| MQHDLEADVTMTGSDLVSCCYRSLAAPDLTLRDLLDIVETSQAHNARAQLTGALFYSQGVFFQWLEGRPAAVAEVMTHIQRDRRHSNVEILAEEPIAKRRFAGWHMQLSCSEADMRSLGLAESRQIVTVGRSLVADNTNIFSFDRIAAVRRFLSDVCAARTLAPDTPVEADTFALYALTEAQAGRSGRAKAVARLSDLLSTDPLGRLTEVEELLRAHAPTAADFARLFEACAERLTRALAEDRISRMQVTLAYSALQMALRRIHHLPDPQKSVGAVLVAGVPGHKPILEAALAAEMLRAVGWSTSVVHPESVAALAARLKTSRTSTLVVAPSLLEGTEQEADTLRFVSALRARTDLPGLSILVGGRLAQLPPSKLKDSGADAGFAHLALLPAALARVACPANADCCSMRACRMPASQCCDKRINPEFLLANVMPSVLTRISSRQDRRRSA | 0.228 | | 24 | In | 0.978 | In | 0.45 | In |
| >gi|425161|gb|AAA96491.1| dihydrofolate reductase domain [synthetic construct] |  | |  |  |  |  |  |  |
| MMEQVCDVFDIYAICACCKVESKNEGKKNEVFNNYTFRGLGNKGVLPWKCNSLDMKYFCAVTTYVNESKYEKLKYKRCKYLNKETVDNVNDMPNSKKLQNVVVMGRTSWESIPKKFKPLSNRINVILSRTLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKKLIKKIYFTRINSTYECDVFFPEINENEYQIISVSDVYTSNNTTLDFIIYKKTNN | 0.585 | | 87 | In | 0.781 | In | 1.44 | In |
| >gi|461377|gb|AAB07708.1| metalloprotease [Aspergillus fumigatus] |  | |  |  |  |  |  |  |
| MRGLLLAGALALPASVFAHPAHQSYGLNRRTVDLNAFRLKSLAKYVNATETVIEAPSSFAPFKPQSYVEVATQHVKMIAPDATFRVVDDHYVGDNGVAHVHFRQTANGLDIDNADFNVNVGKDGKVFSYGNSFYTGKIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEKESYVFKGVSGTVSDPKPKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVVDYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSNPSGGSSYLNNYRPSSSSLSFKYPYSVSSSPPSSYIDASIIQLFYTANIYHDLLYTLGFTEKAGNFEYNTNGQGGLGNDYVILNAQDGSGTNNANFATPPDGQPGRMRMYVWTESTPYRNGSFEAGIVIHEYTHGLSNRLTGGPANSNSLYALESGGMGEGWSDFMATAIRLKPGDKRSTDYAMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIGTVWASILYEVLWNLIDKHGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMAFQPCNANFVQARDAILDADTALTGGENQCEIWTAFAKRGLGAGAKYSSRNRVGSTEVPSGVC | 0.419 | | 32 | S | 0.649 | In | 1.35 | In |
| >gi|263960|gb|AAB25034.1| phospholipase A2 [Agkistrodon piscivorus] |  | |  |  |  |  |  |  |
| MSLFQFEKLIKKMTGKSGMLWYSAYGCYCGWGGQGRPKDATDRCCFVHDCCYGKVTGCNPKMDIYTYSVENGNIVCGGTNPCKKQICECDRAAAICFRDNLLTYDSKTYWKYPKNCTKEESEPC | 0.688 | | 92 | In | 0.781 | In | 1.83 | In |
| >gi|603629|gb|AAB64992.1| Yel050cp [Saccharomyces cerevisiae] |  | |  |  |  |  |  |  |
| MLVLGSLRSALSCSSTASLISKRNPCYPYGILCRTLSQSVKLWQENTSKDDSSLNITPRLLKIIPNDTDIVTLEKQDELIKRRRKLSKEVTQMKRLKPVSPGLRWYRSPIYPYLYKGRPVRALTVVRKKHGGRNNSGKITVRHQGGGHRNRTRLIDFNRWEGGAQTVQRIEYDPGRSSHIALLKHNTTGELSYIIACDGLRPGDVVESFRRGIPQTLLNEMGGKVDPAILSVKTTQRGNCLPISMIPIGTIIHNVGITPVGPGKFCRSAGTYARVLAKLPEKKKAIVRLQSGEHRYVSLEAVATIGVVSNIDHQNRSLGKAGRSRWLGIRPTVRGVAMNKCDHPHGGGRGKSKSNKLSMSPWGQLAKGYKTRRGKNQNRMKVKDRPRGKDARL | 0.532 | | 82 | S | 0.981 | In | -0.08 | S |
| >gi|3347850|gb|AAC27742.1| sialic acid-binding lectin 1 [Limax flavus] |  | |  |  |  |  |  |  |
| MSVLFLAASFLLLASFELVAAQGCPRQDPGDWIVIQRRLNADVNFYRGWADYKHGFGDLRCNFWLGNEKIHQLTSHGRYKLRVEFTFNNKSYFAEYSTFKILGEADKYKLQVGGYSGNAGDALTFHNGMAFSTNDRDNDADSIDCAKVYHGAWWYKTCHESNLNGKWGSKKYGEGLNWKAKTTFTATATSSLLKIKALK | 0.506 | | 38 | In | 0.641 | In | 1.85 | In |
| >gi|2906236|gb|AAC34292.1| activator protein [Pseudomonas fluorescens] |  | |  |  |  |  |  |  |
| MTRATRITDPSYELMDDHNGLSIIYRQHGFPCPLVRWHFHKEYELHLIVASSGKVFIGDYIGNFYPESLFLTGPNLPHNWISQVEEDEVVPKRDMLVNFTDELFEQGSHIFAELKTLTPMLERAQSGIEFRCKKTIAQAMTLMQRIEDARGMARLGHFFILLEVLSSCEDYQLLSGVTTPQLADEHSIDRTNRAVDYIFAHYARELPLEEVAEHLGMKPTYFSRVFKQATGRTFIEFVNRLRISKSCELLADGDKAVTDVCFESGFNNISNFNRRFQQLKGMTPSHYRRLAVQRLTEQNLA | 0.465 | | 27 | In | 0.98 | In | -0.21 | S |
| >gi|3153199|gb|AAC38578.1| P-protein [Xanthomonas campestris] |  | |  |  |  |  |  |  |
| MAPKPKNTNAAGGTAKSATKASSKKATKLAGKDSAKPLATAAPVLADVRAKIDEIDRGIQALIAERANFAHQVGKAKGKLAAAVDYYRPEREAQVLRMVVDRNEGPLSDEVLVHVFREIMSACLAQQEPLKIGYLGPEGTFSQQAVLKHFGRSAVGLPMATIEEVFQEVEAGNADFGVVPVENSGQGTIQVTLDMFLTSNLKICGEVELRVHQYLLSRNGRLEDIERIYAHSQSFAQTAGWLRSHLPKVEKIAVSSNAEGARRARNAEDAAAIGGESAAHVYGLKKVIMKSIEDDDDNTTRFLVIGRQIFPSSGHDRTSVLVFIHDKPGALFDVLSPFARHGISMNRIESRPSHQAKWEYGFFIDLAGHVEDESMKQALAELEAHSAQIKVLGSYPVAIP | 0.65 | | 70 | S | 0.971 | In | 0.69 | In |
| >gi|1055214|gb|AAC43487.1| transferrin binding protein 1 [Actinobacillus pleuropneumoniae] |  | |  |  |  |  |  |  |
| MKNKLNLISLALLSLFAVQSYAEQAVQLNDVYVTGTKKKAHKKENEVTGLGKVVKTPDTLSKEQVLGIRDLTRYDPGISVVEQGRGATTGYSIRGVDRNRVGLALDGLPQIQSYVSQYSRSSSGAINEIEYENLRSIQISKGASSSEFGSGSLGGSVQFRTKEVSDIIKPGQSWGLDTKSAYSSKNQQWLNSLAFAGTHNGFDALVIYTHRDGKETKAHKDAESRSQNITRVGVETNELDTSNRYTATTNNQHTYGWFLIKDECPTLDCTPKQMARVTKDTPSFRSYPEYTPEEKQAYENQKHITERLNAQDYTGEYRALPDPLKYKSDSWLVKLGYTFSPKHYVAGTYEHSKQRYDTRDMTYTAYWQPSDLLRTGRNWYPMNNAKGLYRDNALDGVAIDYFTEDGVKSSKGLRWAKARFIDEWHTRDRLGALYRYTNQDGNRLIDRLSLSFDQQKINLSTRLRENNCSEYPTIDKNCRATLDKLWSSTKNEQSSYEEKHDTIQLSLDKTVQTGLGKHQLNMLLGSDRFNSTLKRHEILSEFSVGTWHRIRGNGYKDTPYIYELKDQAIYSKNECDYSGTIAGRADCATSKIKGHNHYIALRDNFAITKYLDIGLGYRFDKHKFRSTHRWANQGDYKNSAWNIGIVAKPTSFLSLSYRASSGFRVPSFQELFGLRYDGAMKGSSDAYQKTEKLSPEKSLNQEVAATFKGDFGVVEVSYFKNDYKQLIAPAERMHQTQSMINYFNVQDIKLDGINLIGKLDWNGVFDKIPEGIYTTLAYSKMRVKEVKNYQGYMNIRSPLLDTIQPARYVVGVGYDQPDEKWGVNLTMTHSSGKNPNELRGNEQVGFANYERTATKKRTRSWHTFDLTGYITPWKHTTVRAGVYNLMNYRYTTWESVRQSSLNAIHQHTNVKDYARYAAPGRNYVVSFEMKF | 0.414 | | 16 | S | 0.521 | In | 1.91 | In |
| >gi|1490533|gb|AAC53663.1| GFPuv [Cloning vector pBAD-GFPuv] |  | |  |  |  |  |  |  |
| MASKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTLKFICTTGKLPVPWPTLVTTFSYGVQCFSRYPDHMKRHDFFKSAMPEGYVQERTISFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNYNSHNVYITADKQKNGIKANFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMVLLEFVTAAGITHGMDELYK | 0.664 | | 85 | S | 0.707 | S | 0.22 | In |
| >gi|4191720|gb|AAD09856.1| thermostable lipase TliA [Pseudomonas fluorescens] |  | |  |  |  |  |  |  |
| MGVFDYKNLGTEASKTLFADATAITLYTYHNLDNGFAVGYQQHGLGLGLPATLVGALLGSTDSQGVIPGIPWNPDSEKAALDAVHAAGWTPISASALGYGGKVDARGTFFGEKAGYTTAQAEVLGKYDDAGKLLEIGIGFRGTSGPRESLITDSIGDLVSDLLAALGPKDYAKNYAGEAFGGLLKTVADYAGAHGLSGKDVLVSGHSLGGLAVNSMADLSTSKWAGFYKDANYLAYASPTQSAGDKVLNIGYENDPVFRALDGSTFNLSSLGVHDKAHESTTDNIVSFNDHYASTLWNVLPFSIANLSTWVSHLPSAYGDGMTRVLESGFYEQMTRDSTIIVANLSDPARANTWVQDLNRNAEPHTGNTFIIGSDGNDLIQGGKGADFIEGGKGNDTIRDNSGHNTFLFSGHFGQDRIIGYQPTDRLVFQGADGSTDLRDHAKAVGADTVLSFGADSVTLVGVGLGGLWSEGVLIS | 0.511 | | 60 | S | 0.703 | In | 0.55 | In |
| >gi|7528274|gb|AAF63204.1|AF244915\_1 interleukin-13 [Canis lupus familiaris] |  | |  |  |  |  |  |  |
| MALWLTVVIALTCLGGLASPSPVTPSPTLKELIEELVNITQNQASLCNGSMVWSVNLTAGMYCAALESLINVSDCSAIQRTQRMLKALCSQKPAAGQISSERSRDTKIEVIQLVKNLLTYVRGVYRHGNFR | 0.375 | | 23 | In | 0.535 | In | 2.04 | In |
| >gi|19744841|gb|AAL96679.1|AF489496\_1 class 1 outer membrane protein [Neisseria meningitidis] |  | |  |  |  |  |  |  |
| MRKKLTALVLSALPLAAVADVSLYGEIKAGVEGRNYQLQLTEAQAANGGASGQVKVTKVTKAKSRIRTKISDFGSFIGFKGSEDLGDGLKAVWQLEQDVSVAGGGATQWGNRESFIGLAGEFGTLRAGRVANQFDDASQAIDPWDSNNDVASQLGIFKRHDDMPVSVRYDSPEFSGFSGSVQFVPIQNSKSAYTPAYYTKGTNNDLTLVPAVVGKPGSDVYYAGLNYKNGGFAGNYAFKYARHANVGRNAFELFLIGSGSDQAKGTDPLKNHQVHRLTGGYEEGGLNLALAAQLDLSENGDKT | 0.441 | | 78 | S | 0.902 | In | 1.83 | In |
| >gi|398122|dbj|BAA02440.1| nitrite reductase [Alcaligenes faecalis] |  | |  |  |  |  |  |  |
| MAEQMQISRRTILAGAALAGALAPVLATTSAWGQGAVRKATAAEIAALPRQKVELVDPPFVHAHSQVAEGGPKVVEFTMVIEEKKIVIDDAGTEVHAMAFNGTVPGPLMVVHQDDYLELTLINPETNTLMHNIDFHAATGALGGGGLTEINPGEKTILRFKATKPGVFVYHCAPPGMVPWHVVSGMNGAIMVLPREGLHDGKGKALTYDKIYYVGEQDFYVPRDENGKYKKYEAPGDAYEDTVKVMRTLTPTHVVFNGAVGALTGDKAMTAAVGEKVLIVHSQANRDTRPHLIGGHGDYVWATGKFNTPPDVDQETWFIPGGAAGAAFYTFQQPGIYAYVNHNLIEAFELGAAAHFKVTGEWNDDLMTSVLAPSGT | 0.711 | | 77 | S | 0.625 | S | -0.13 | S |
| >gi|639878|dbj|BAA08203.1| afsKG [Streptomyces griseus] |  | |  |  |  |  |  |  |
| MVEQLTQHDPRRIGPFEVLGRLGAGGMGLVYLARSASGRRVAIKTVRTELAEDQLFRVRFTREVEAARAVSGFYTAAVVDADPRAAVPWLATAYVPAPSLEEIVNECGPMPTQAVRWLAAGIAQALQSIHGAGLVHRDLKPSNVLVVEDGPRVIDFGIASGVSNTRLTMTNVAVGTPAYMSPEQARDSRSVTGASDIFSLGSTLVFAATGHAPFHGANPVETVFMLVREGPDLEGLPDDLRPLIESCMQMDATHPAAEPRDLQAQLAPHLFASGSDDSGTASAWLPVPATAMIERRRGGRRTARRPPRPRPRRLRAAPQGPGAGHRLAQRGRPAFALPAVLALAAVRRVRTAAGPSAAPDGGPVQLPGAKVPIGPGRRAGEGRGAAAAAPRRRDRLGPAARRSERFLGGHGPHRTVPASTLRPGTPSPAPDRWRPWRFRMSNDVWGTPVVSGDLLYVTSFEVHALDVGNGRRQFKTRDVAWAMAVEGGRIHASDGPSLYALDAASGAEQWRLATDAWVYALKADRGTVLTATRGGGVQGWEASNGEKLWEVTGAQSDFETAEAGPVIHDGTVYLWQDARLRALDARTGLERWSYPIGDAASCGGVPVRVTPATDGYVYVAAGTRVLAVETGSGPVRWHFEAPAVFLSPPAFAPGPAVTGGGVYLADYLGTVYALDATTGKDRWRIATEARSSIEPVLVAVGNVHVGSGSALYTLDAVTDTPKWRFAAGGDVVGAPWWRRPGPLRLGGPRALHPGRGGRPAALKLATGGEITGSPVAQAGVVYACSKDRCVYALDALKGTGTGNRART | 0.501 | | 45 | S | 0.978 | In | 2.13 | In |
| >gi|3318611|dbj|BAA31582.1| mitochondrial phosphate transporter [Glycine max] |  | |  |  |  |  |  |  |
| MALPDSSSRRNSLIPSFIYSSSSKTLPLHHMLNTASAAAAAAPSPPPANLDAGSRGLMIPSPSESRKIELYSPAFYAACTAGGILSCGLTHMTVTPLDLVKCNMQIDPAKYKSISSGFGVLLKEQGFRGFFRGWVPTLLGYSAQGACKFGFYEFFKKYYSDIAGPEYASKYKTLIYLAGSASAEVIADIALCPFEAVKVRVQTQPGFARGLSDGLPKFVRSEGTLGLYKGLVPLWGRQIPYTMMKFASFETIVELIYKHAIPTPKNECTKSLQLGVSFAGGYVAGVLCAIVSHPADNLVSFLNNAKGATVGDAVKKLGLWGLFTRGLPLRIVMIGTLTGAQWGIYDAFKVFVGLPTTGGPAPAAAPAPGSELAKA | 0.394 | | 55 | In | 0.977 | In | 2.55 | In |
| >gi|2826168|dbj|BAA61829.1| salicylate hydroxylase [Pseudomonas putida] |  | |  |  |  |  |  |  |
| MSKSPLRVAVIGGGIAGTALALGLSKSSHVNVKLFETAPAFGEIGAGVSFGVNAVEAIQRLGIGELYKSVADSTPAPWQDIWFEWRHAHDASLVGATVAPGIGQSSIHRADFIDMLEKRLPAGIASLGKHVVDYTENAEGVTLNFADGSTYTADVAIAADGIKSSMRNTLLRAAGHDAVHPQFTGTSAYRGLVETSALREAYQAASLDEHLLNVPQMYLIEDGHVLTFPVKKGKLIIIVAFVSDRSVAKPQWPSDQPWVRPATTDEMLHRFAGAGEAVKTLLTSIKSPTLWALHDFDPLPTYVHGRVALIGDAAHAMLPHQGAGAGQGLEDAYFMAELLGNPLHEASDIPALLEVYDDVRRGRASKVQLTSREAGELYEYRTPGVERDTAKLKALLESRMNWIWNYDLGAEARLAVKPALA | 0.462 | | 36 | In | 0.639 | S | 0.15 | In |
| >gi|3341443|emb|CAA11075.1| acid phosphatase [Glycine max] |  | |  |  |  |  |  |  |
| MKVLVFFVAIVLAAWHCHGSDHDHDHGHTYQIFPLRMKTGHGGHYIPEVSCQSWRLGVEAHNVIDWKTVPQDCEGYIGNYMLGEQYRSDSKIVNQQAYFYAKTLNITAKTAWVFDIDETTLSNLPYYADHGFGVELYNETSFNKWVDLGEAPALPESLKLYKKLLSLGIKIVFITGRPLDQKAVTATNLNLKLAGYHTWEKLITKNTSEYHGKTAVTYKSTERKKLEEKGYKIIGNIGDQWSDLLGTNTGDRTFKLPDPMYYIS | 0.513 | | 46 | S | 0.95 | In | 0.51 | In |
| >gi|296712|emb|CAA41526.1| synIL-2 alpha [synthetic construct] |  | |  |  |  |  |  |  |
| MELCDDEPPEIPHATFKALAYKEGTILNCECKRGFRRIKSGSLYVLCTGNSSHSSWDNQCQCTSSATRNTTKQVTPQPEEQKERKTTELQSPAQPVDQASLPGHCREPPPWENEATERIYHFVVGQIVYYQCVQGYRALHRGPAESVCKATHGKTRWTQPQLICTGELETSQFPGEEKPQASPEGRPESETSCLVTTTDFQIQTEVAATAETSIFTTEYQVAVAGCVFLLISVLLLSGLTWQRRQRKSRRTI | 0.735 | | 91 | S | 0.733 | In | 0.54 | In |
| >gi|32678|emb|CAA44325.1| interferon-gamma [Homo sapiens] |  | |  |  |  |  |  |  |
| MQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSFYFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELIQVMAELSPAAKTGKRKRSQMLFRGRRASQ | 0.408 | | 95 | In | 0.751 | In | 0.33 | In |
| >gi|471241|emb|CAA48684.1| Bactericidal /Permeability Increasing Protein [Homo sapiens] |  | |  |  |  |  |  |  |
| MVNPGVVVRISQKGLDYASQQGTAALQKELKRIKIPDYSDSFKIKHLGKGHYSFYSMDIREFQLPSSQISMVPNVGLKFSISNANIKISGKWKAQKRFLKMSGNFDLSIEGMSISADLKLGSNPTSGKPTITCSSCSSHINSVHVHISKSKVGWLIQLFHKKIESALRNKMNSQVCEKVTNSVSSKLQPYFQTLPVMTKIDSVAGINYGLVAPPATTAETLDVQMKGEFYSENHHNPPPFAPPVMEFPAA | 0.67 | | 90 | In | 0.734 | In | 2.45 | In |
| >gi|4376110|emb|CAA49762.1| bacterioopsin [synthetic construct] |  | |  |  |  |  |  |  |
| EFPAPRPPTPEAQITGRPEWIWLALGTALMGLGTLYFLVKGMGVSDPDAKKFYAITTLVPAIAFTMYLSMLLGYGLTMVPFGGEQNPIYWARYADWLFTTPLLLLDLALLVDADQGTILALVGADGIMIGTGLVGALTKVYSYRFVWWAISTAAMLYILYVLFFGFTSKAESMRPEVASTFKVLRNVTVVLWSAYPVVWLIGSEGAGIVPLNIETLLFMVLDVSAKVGFGLILLRSRAIFGEAEAPEPSAGDGAAATSD | 0.298 | | 10 | In | 0.588 | In | 0.11 | In |
| >gi|1743238|emb|CAA63058.1| glutaredoxin 2 [Escherichia coli K-12] |  | |  |  |  |  |  |  |
| MKLYIYDHCPYCLKARMIFGLKNIPVELHVLLNDDAETPTRMVGQKQVPILQKDDSRYMPESMDIVHYVDKLDGKPLLTGKRSPAIEEWLRKVNGYANKLLLPRFAKSAFDEFSTPAARKYFVDKKEASAGNFADLLAHSDGLIKNISDDLRALDKLIVKPNAVNGELSEDDIQLFPLLRNLTLVAGINWPSRVADYRDNMAKQTQINLLSSMAI | 0.377 | | 79 | In | 0.685 | In | 0.77 | In |
| >gi|2073464|emb|CAA73028.1| serine /threonine specific protein phosphatase [Pyrodictium abyssi] |  | |  |  |  |  |  |  |
| MQRELPRLLEDAVEVLRRRGPVVRLGAGSVLVAGDTHGYPEVSRWVLGLADELGVDAVVFLGDYVDRGPRGVENLSLLVERLLAEPGRVVLLRGNHESPSMNLYYGFRGEFAAKVGVEHLDILHGFYSCLPYAALMGRVLLVHGGVPCRECQGGPEEPLRLGEIEERLRGLFCRRWLLEWGDSVAVQLLWNDPRGELDWFAPSLRGPGIYYYGRLAWKGFLEANGLELIVRAHEAVDAHHVWTSSGRPVHGLEHGYTMGLEELRGSVVTVFSSLYHGAGAGALLLREGEVVFLRYPGGAQGL | 0.604 | | 55 | S | 0.958 | In | 0.45 | In |
| >gi|2462913|emb|CAA74917.1| scFv-215::core-streptavidin fusion protein [synthetic construct] |  | |  |  |  |  |  |  |
| MKYLLPTAAAGLLLLAAQPAMAQVQLQQSGAELVRPGVSVKISCKGSGYKFTDYATHWVKQSHAKSLEWIGVISTYYGDTTYNQKFKGKATMTVDKSSSTAYMELPRLTSDDSAIYYCALLRPFAYWGQGTTVTVSSGGGGSGGGGSGGGGSDIELTQSPSSLSVSAGEKVTMSCKSSQSLLNSGNQNNDLAWYQQKPGQRPKLLIYGASTRESGVPDRFTGSGSGTDFTLTISSVQAEDLAVYYCQNDHSYPLTFGAGTKLELKRAAAGSGAAEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVLTGRYDSAPATDGSGTALGWTVAWKNNYRNAHSATTWSGQYVGGAEARINTQWLLTSGTTEANAWKSTLVGHDTFTKVKPSAASGSEQKLISEEDLCIHHHHH | 0.737 | | 32 | S | 0.971 | In | 1.97 | In |
| >gi|536035|emb|CAA84850.1| AAC2 [Saccharomyces cerevisiae] |  | |  |  |  |  |  |  |
| MSSNAQVKTPLPPAPAPKKESNFLIDFLMGGVSAAVAKTAASPIERVKLLIQNQDEMLKQGTLDRKYAGILDCFKRTATQEGVISFWRGNTANVIRYFPTQALNFAFKDKIKAMFGFKKEEGYAKWFAGNLASGGAAGALSLLFVYSLDYARTRLAADSKSSKKGGARQFNGLIDVYKKTLKSDGVAGLYRGFLPSVVGIVVYRGLYFGMYDSLKPLLLTGSLEGSFLASFLLGWVVTTGASTCSYPLDTVRRRMMMTSGQAVKYDGAFDCLRKIVAAEGVGSLFKGCGANILRGVAGAGVISMYDQLQMILFGKKFK | 0.429 | | 60 | In | 0.847 | In | 1.05 | In |
| >gi|1000505|emb|CAA90967.1| cardiotoxin 7 [Naja naja] |  | |  |  |  |  |  |  |
| MKTLLLTLVVVTIVCLDLGYTLKCHNTQLPFIYNTCPEGKNLCFKATLKFPLKFPVKRGCAATCPRSSSLVKVVCCKTDKCN | 0.729 | | 99 | S | 0.706 | In | -1.25 | S |
| >gi|1322722|emb|CAA96855.1| MRF1 [Saccharomyces cerevisiae] |  | |  |  |  |  |  |  |
| MWLSKFQFPSRSIFKGVFLGHKLPLLVRLTSTTTNSKSNGSIPTQYTELSPLLVKQAEKYEAELKDLDKDLSCGIHFDVNKQKHYAKLSALTDTFIEYKEKLNELKSLQEMIVSDPSLRAEAEQEYAELVPQYETTSSRLVNKLLPPHPFADKPSLLELRPGVGGIEAMIFTQNLLDMYIGYANYRKWKYRIISKNENESGSGIIDAILSIEEAGSYDRLRFEAGVHRVQRIPSTETKGRTHTSTAAVVVLPQIGDESAKSIDAYERTFKPGEIRVDIMRASGKGGQHVNTTDSAVRLTHIPSGIVVSMQDERSQHKNKAKAFTILRARLAEKERLEKEEKERKARKSQVSSTNRSDKIRTYNFPQNRITDHRCGFTLLDLPGVLSGERLDEVIEAMSKYDSTERAKELLESN | 0.416 | | 75 | In | 0.973 | In | 1.2 | In |
| >gi|1431142|emb|CAA98669.1| CDC2 [Saccharomyces cerevisiae] |  | |  |  |  |  |  |  |
| MSEKRSLPMVDVKIDDEDTPQLEKKIKRQSIDHGVGSEPVSTIEIIPSDSFRKYNSQGFKAKDTDLMGTQLESTFEQDVSQMEHDMADQEEHDLSSFERKKLPTDFDPSLYDISFQQIDAEQSVLNGIKDENTSTVVRFFGVTSEGHSVLCNVTGFKNYLYVPAPNSSDANDQEQINKFVHYLNETFDHAIDSIEVVSKQSIWGYSGDTKLPFWKIYVTYPHMVNKLRTAFERGHLSFNSWFSNGTTTYDNIAYTLRLMVDCGIVGMSWITLPKGKYSMIEPNNRVSSCQLEVSINYRNLIAHPAEGDWSHTAPLRIMSFDIECAGRIGVFPEPEYDPVIQIANVVSIAGAKKPFIRNVFTLNTCSPITGSMIFSHATEEEMLSNWRNFIIKVDPDVIIGYNTTNFDIPYLLNRAKALKVNDFPYFGRLKTVKQEIKESVFSSKAYGTRETKNVNIDGRLQLDLLQFIQREYKLRSYTLNAVSAHFLGEQKEDVHYSIISDLQNGDSETRRRLAVYCLKDAYLPLRLMEKLMALVNYTEMARVTGVPFSYLLARGQQIKVVSQLFRKCLEIDTVIPNMQSQASDDQYEGATVIEPIRGYYDVPIATLDFNSLYPSIMMAHNLCYTTLCNKATVERLNLKIDEDYVITPNGDYFVTTKRRRGILPIILDELISARKRAKKDLRDEKDPFKRDVLNGRQLALKISANSVYGFTGATVGKLPCLAISSSVTAYGRTMILKTKTAVQEKYCIKNGYKHDAVVVYGDTDSVMVKFGTTDLKEAMDLGTEAAKYVSTLFKHPINLEFEKAYFPYLLINKKRYAGLFWTNPDKFDKLDQKGLASVRRDSCSLVSIVMNKVLKKILIERNVDGALAFVRETINDILHNRVDISKLIISKTLAPNYTNPQPHAVLAERM | 0.516 | | 43 | In | 0.987 | In | 0.66 | In |
| >gi|4902487|emb|CAB43519.1| zinc proteinase [Astacus astacus] |  | |  |  |  |  |  |  |
| MQCAVLLALLGVVAASPIIPEAARALYYNDGMFEGDIKLRAGRQPARVGAAILGDEYLWSGGVIPYTFAGVSGADQSAILSGMQELEEKTCIRFVPRTTESDYVEIFTSGSGCWSYVGRISGAQQVSLQANGCVYHGTIIHELMHAIGFYHEHTRMDRDNYVTINYQNVDPSMTSNFDIDTYSRYVGEDYQYYSIMHYGKYSFSIQWGVLETIVPLQNGIDLTDPYDKAHMLQTDANQINNLYTNECSLRH | 0.441 | | 7 | In | 0.949 | In | -0.5 | S |
| >gi|10638019|emb|CAC11021.1| lipase [synthetic construct] |  | |  |  |  |  |  |  |
| MARTMRSRVVAGAVACAMSIAPFAGTTAVMTLATTHAAMAATAPADGYAATRYPIILVHGLSGTDKYAGVVEYWYGIQEDLQQNGATVYVANLSGFQSDDGANGRGEQLLAYVKTVLAATGATKVNLVGHSQGGLTSRYVAAVAPDLVASVTTIGTPHRGSEFADFVQNVLAYDPTGLSSSVIAAFVNVFGILTSSSHNTNQDALAALQTLTTARAATYNQNYPSAGLGAPGSCQTGAPTETVGGNTHLLYSWAGTAIQPTLSVFGITGATDTSTVPLVDLANVLDPSTLALFGTGTVMINRGSGQNDGLVSKCSALYGKVLSTSYKWNHLDEINQLLGVRGAYAEDPVAVIRTHANRLKLAGV | 0.491 | | 23 | In | 0.854 | In | 1.14 | In |
| >gi|14547076|emb|CAC42505.1| glucose dehydrogenase [Haloferax mediterranei] |  | |  |  |  |  |  |  |
| MKAIAVKRGEDRPVVIEKPRPEPESGEALVRTLRVGVDGTDHEVIAGGHGGFPEGEDHLVLGHEAVGVVVDPNDTELEEGDIVVPTVRRPPASGTNEYFERDQPDMAPDGMYFERGIVGAHGYMSEFFTSPEKYLVRIPRSQAELGFLIEPISITEKALEHAYASRSAFDWDPSSAFVLGNGSLGLLTLAMLKVDDKGYENLYCLGRRDRPDPTIDIIEELDATYVDSRQTPVEDVPDVYEQMDFIYEATGFPKHAIQSVQALAPNGVGALLGVPSDWAFEVDAGAFHREMVLHNKALVGSVNSHVEHFEAATVTFTKLPKWFLEDLVTGVHPLSEFEAAFDDDDTTIKTAIEFSTV | 0.786 | | 91 | S | 0.658 | In | -2.08 | S |
| >gi|14571793|emb|CAC42773.1| taxadiene synthase [Taxus baccata] |  | |  |  |  |  |  |  |
| MAQLSFNAALKMNALGNKAIHDPTNCRAKSERQMMWVCSRSGRTRVKMSRGSGGPGPVVMMSSSTGTSKVVSETSSTIVDDIPRLSANYHGDLWHHNVIQTLETPFRESSTYQERADELVVKIKDMFNALGDGDISPSAYDTAWVARVATVSSDGSEKPRFPQALNWVLNNQLQDGSWGIESHFSLCDRLLNTVNSVIALSVWKTGHSQVEQGAEFIAENLRLLNEEDELSPDFEIIFPALLQKAKALGINLPYDLPFIKSLSTTREARLTDVSAAADNIPANMLNALEGLEEVIDWNKIMRFQSKDGSFLSSPASTACVLMNTGDEKCFTLLNNLLDKFGGCVPCMYSIDLLERLSLVDNIEHLGIGRHFKQEIKVALDYVYRHWSERGIGWGRDSLVPDLNTTALGLRTLRTHGYDVSSDVLNNFKDENGRFFSSAGQTHVELRSVVNLFRASDLAFPDEGAMDDARKFAEPYLRDALATKISTNTKLYKEIEYVVEYPWHMSIPRLEARSYIDSYDDDYVWQRKTLYRMPSLSNSKCLELAKLDFNIVQSLHQEELKLLTRWWKESGMADINFTRHRVAEVYFSSATFEPEYSATRIAFTKIGCLQVLFDDMADIFATLDELKSFTEGVKRWDTSLLHEIPECMQTCFKVWFKLMEEVNNDVVKVQGRDMLAHIRKPWELYFNCYVQEREWLEAGYIPTFEEYLKTYAISVGLGPCTLQPILLMGELVKDDVVEKVHYPSNMFELVSLSWRLTNDTKTYQAEKARGQQASGIACYMKDNPGATEEDAIKHICRVVDRALKEASFEYFKPSNDIPMGCKSFIFNLRLCVQIFYKFIDGYGIANEEIKDYIRKVYIDPIQV | 0.552 | | 37 | In | 0.632 | In | -0.09 | S |
| >gi|2129823|pir||JC4990 chymotrypsin inhibitor ECI precursor - Erythrina variegata |  | |  |  |  |  |  |  |
| MRSTTYFVLFLVSAFISYLPSSTAQPLLDVEGNLVENGGTYYLLPHIWALGGGIEAARTGKETCPLTVVQSPFEVSNGEPIRIASQFLSTFIPDGSPVAPGFANPPSCAALPWWTVVETLRGLAVKLLEHKTPEEDDTKFKFQKVSSPNRYVYNLSYCQREDDDLKCDQYIGIHRDARGNRRLVVTNDNPLQLVLVKANSPSQ | 0.529 | | 56 | In | 0.526 | In | 1.15 | In |
| >gi|11354246|pir||JC7310 protein-glutamine gamma-glutamyltransferase (EC 2.3.2.13) - Escherichia coli |  | |  |  |  |  |  |  |
| MDSDDRVTPPAEPLDRMPDPYRPSYGRAETVVNNYIRKWQQVYSHRDGRKQQMTEEQREWLSYGCVGVTWVNSGQYPTNRLAFASFDEDRFKNELKNCRPRSGETRAEFEGRVAKESFDEEKGFQRAREVASVMNRALENAHDESAYLDNLKKELANGNDALRNEDARSPFYSALRNTPSFKERNGGNHDPSRMKAVIYSKHFWSGQDRSSSADKRKYGDPDAFRPAPGTGLVDMSRDRNIPRSPTSPGEGFVNFDYGWFGAQTEADADKTVWTHGNHYHAPNGSLGAMHVYESKFRNWSEGYSDFDRGAYVITFIPKSWNTAPDKVKQGWP | 0.486 | | 52 | In | 0.976 | In | 1.68 | In |
| >gi|13878451|sp|O68983.1|CSMJ\_CHLTE RecName: Full=Chlorosome protein J |  | |  |  |  |  |  |  |
| MIIYINDKPCNAKVGDLLLNTAKLNKAHIGYICGGNGICQSCFVYVLEGAECLSEPGEDEKAFISDKLFAEGGRLACRTTIVKEGTIRVLTRAEKFRRIVLGLNVPGFITYAQTIGYNVTNKLPSGVSSIVSRVQSGRLNPVDTIGKIASGLSPASQLVYNNFIEAFPFMQAPVNMVSGVAKSAIDNASGALCTISGGRLHLPGSTCTAHDKPAEAIERITISAK | 0.475 | | 64 | In | 0.533 | S | 2.31 | In |
| >gi|85701303|sp|P07713.2|DECA\_DROME RecName: Full=Protein decapentaplegic; Short=Protein DPP-C; Flags: Precursor | | | | |  |  |  |  |
| MRAWLLLLAVLATFQTIVRVASTEDISQRFIAAIAPVAAHIPLASASGSGSGRSGSRSVGASTSTALAKAFNPFSEPASFSDSDKSHRSKTNKKPSKSDANRQFNEVHKPRTDQLENSKNKSKQLVNKPNHNKMAVKEQRSHHKKSHHHRSHQPKQASASTESHQSSSIESIFVEEPTLVLDREVASINVPANAKAIIAEQGPSTYSKEALIKDKLKPDPSTLVEIEKSLLSLFNMKRPPKIDRSKIIIPEPMKKLYAEIMGHELDSVNIPKPGLLTKSANTVRSFTHKDSKIDDRFPHHHRFRLHFDVKSIPADEKLKAAELQLTRDALSQQVVASRSSANRTRYQVLVYDITRVGVRGQREPSYLLLDTKTVRLNSTDTVSLDVQPAVDRWLASPQRNYGLLVEVRTVRSLKPAPHHHVRLRRSADEAHERWQHKQPLLFTYTDDGRHKARSIRDVSGGEGGGKGGRNKRQPRRPTRRKNHDDTCRRHSLYVDFSDVGWDDWIVAPLGYDAYYCHGKCPFPLADHFNSTNHAVVQTLVNNMNPGKVPKACCVPTQLDSVAMLYLNDQSTVVLKNYQEMTVVGCGCR | 0.415 | | 79 | In | 0.988 | In | 1.5 | In |
| MRAKLLGIVLTTPIAISSFASTETLSFTPDNINADISLGTLSGKTKERVYLAEEGGRKVSQLDWKFNNAAIIKGAINWDLMPQISIGAAGWTTLGSRGGNMVDQDWMDSSNPGTWTDESRHPDTQLNYANEFDLNIKGWLLNEPNYRLGLMAGYQESRYSFTARGGSYIYSSEEGFRDDIGSFPNGERAIGYKQRFKMPYIGLTGSYRYEDFELGGTFKYSGWVESSDNDEHYDPGKRITYRSKVKDQNYYSVAVNAGYYVTPNAKVYVEGAWNRVTNKKGNTSLYDHNNNTSDYSKNGAGIENYNFITTAGLKYTF | 0.535 | | 7 | In | 0.515 | In | 1.8 | In |
| MGRQFGHLTRVRHVITYSLSPFEQRAFPHYFSKGIPNVLRRTRACILRVAPPFVAFYLVYTWGTQEFEKSKRKNPAAYENDR | 0.342 | | 25 | In | 0.772 | In | -0.87 | S |
| >gi|50403722|sp|P17085.2|IGF1\_ONCKI RecName: Full=Insulin-like growth factor I; Short=IGF-I; AltName: Full=Somatomedin; Flags: Precursor | | | | | | | | |
| MSSGHLFQWHLCDVFKSAMCCISCTHTLSLLLCVLTLTSAATGAGPETLCGAELVDTLQFVCGERGFYFSKPTGYGPSSRRSHNRGIVDECCFQSCELRRLEMYCAPVKSGKAARSVRAQRHTDMPRTPKVSTAVQNVDRGTERRTAQHPDKTKPKKKPLSGNSHTSCKEVHQKNSSRGNTGGRNYRM | 0.811 | | 82 | In | 0.863 | In | 1 | In |
| MKNLNKFVSIALCSSLLGGMAFAQQTELGRNPNVRLLESTQQSVTKVQFRMDNLKFTEVQTPKGMAQVPTYTEGVNLSEKGMPTLPILSRSLAVSDTREMKVEVVSSKFIEKKNVLIAPSKGMIMRNEDPKKIPYVYGKSYSQNKFFPGEIATLDDPFILRDVRGQVVNFAPLQYNPVTKTLRIYTEITVAVSETSEQGKNILNKKGTFAGFEDTYKRMFMNYEPGRYTPVEEKQNGRMIVIVAKKYEGDIKDFVDWKNQRGLRTEVKVAEDIASPVTANAIQQFVKQEYEKEGNDLTYVLLVGDHKDIPAKITPGIKSDQVYGQIVGNDHYNEVFIGRFSCESKEDLKTQIDRTIHYERNITTEDKWLGQALCIASAEGGPSADNGESDIQHENVIANLLTQYGYTKIIKCYDPGVTPKNIIDAFNGGISLVNYTGHGSETAWGTSHFGTTHVKQLTNSNQLPFIFDVACVNGDFLFSMPCFAEALMRAQKDGKPTGTVAIIASTINQSWASPMRGQDEMNEILCEKHPNNIKRTFGGVTMNGMFAMVEKYKKDGEKMLDTWTVFGDPSLLVRTLVPTKMQVTAPAQINLTDASVNVSCDYNGAIATISANGKMFGSAVVENGTATINLTGLTNESTLTLTVVGYNKETVIKTINTNGEPNPYQPVSNLTATTQGQKVTLKWDAPSTKTNATTNTARSVDGIRELVLLSVSDAPELLRSGQAEIVLEAHDVWNDGSGYQILLDADHDQYGQVIPSDTHTLWPNCSVPANLFAPFEYTVPENADPSCSPTNMIMDGTASVNIPAGTYDFAIAAPQANAKIWIAGQGPTKEDDYVFEAGKKYHFLMKKMGSGDGTELTISEGGGSDYTYTVYRDGTKIKEGLTETTYRDAGMSAQSHEYCVEVKYAAGVSP | 0.518 | | 61 | In | 0.641 | In | 0.67 | In |
| KVCVDYIPDGVADVTAQKPYTLTVVGKTITVTCQGEAMIYDMNGRRLAAGRNTVVYTAQGGYYAVMVVVDGKSYVEKLAVK | 0.832 | | 36 | In | 0.576 | S | 0.61 | In |
| >gi|1168314|sp|P33303.2|SFC1\_YEAST RecName: Full=Succinate/fumarate mitochondrial transporter; AltName: Full=Regulator of acetyl-CoA synthase activity |  | |  |  |  |  |  |  |
| MSQKKKASHPAINLMAGGTAGLFEALCCHPLDTIKVRMQIYRRVAGIEHVKPPGFIKTGRTIYQKEGFLALYKGLGAVVIGIIPKMAIRFSSYEFYRTLLVNKESGIVSTGNTFVAGVGAGITEAVLVVNPMEVVKIRLQAQHLTPSEPNAGPKYNNAIHAAYTIVKEEGVSALYRGVSLTAARQATNQGANFTVYSKLKEFLQNYHQMDVLPSWETSCIGLISGAIGPFSNAPLDTIKTRLQKDKSISLEKQSGMKKIITIGAQLLKEEGFRALYKGITPRVMRVAPGQAVTFTVYEYVREHLENLGIFKKNDTPKPKPLK | 0.563 | | 44 | In | 0.597 | In | 1.03 | In |
| >gi|313104314|sp|P36955.4|PEDF\_HUMAN RecName: Full=Pigment epithelium-derived factor; Short=PEDF; AltName: Full=Cell proliferation-inducing gene 35 protein; AltName: Full=EPC-1; AltName: Full=Serpin F1; Flags: Precursor |  | |  |  |  |  |  |  |
| MQALVLLLCIGALLGHSSCQNPASPPEEGSPDPDSTGALVEEEDPFFKVPVNKLAAAVSNFGYDLYRVRSSTSPTTNVLLSPLSVATALSALSLGAEQRTESIIHRALYYDLISSPDIHGTYKELLDTVTAPQKNLKSASRIVFEKKLRIKSSFVAPLEKSYGTRPRVLTGNPRLDLQEINNWVQAQMKGKLARSTKEIPDEISILLLGVAHFKGQWVTKFDSRKTSLEDFYLDEERTVRVPMMSDPKAVLRYGLDSDLSCKIAQLPLTGSMSIIFFLPLKVTQNLTLIEESLTSEFIHDIDRELKTVQAVLTVPKLKLSYEGEVTKSLQEMKLQSLFDSPDFSKITGKPIKLTQVEHRAGFEWNEDGAGTTPSPGLQPAHLTFPLDYHLNQPFIFVLRDTDTGALLFIGKILDPRGP | 0.576 | | 70 | S | 0.597 | S | 0.78 | In |
| >gi|1708081|sp|P37698.2|GUNF\_CLOCE RecName: Full=Endoglucanase F; AltName: Full=Cellulase F; AltName: Full=EGCCF; AltName: Full=Endo-1,4-beta-glucanase F; Flags: Precursor |  | |  |  |  |  |  |  |
| MSKNFKRVGAVAVAAAMSLSIMATTSINAASSPANKVYQDRFESMYSKIKDPANGYFSEQGIPYHSIETLMVEAPDYGHVTTSEAMSYYMWLEAMHGRFSGDFTGFDKSWSVTEQYLIPTEKDQPNTSMSRYDANKPATYAPEFQDPSKYPSPLDTSQPVGRDPINSQLTSAYGTSMLYGMHWILDVDNWYGFGARADGTSKPSYINTFQRGEQESTWETIPQPCWDEHKFGGQYGFLDLFTKDTGTPAKQFKYTNAPDADARAVQATYWADQWAKEQGKSVSTSVGKATKMGDYLRYSFFDKYFRKIGQPSQAGTGYDAAHYLLSWYYAWGGGIDSTWSWIIGSSHNHFGYQNPFAAWVLSTDANFKPKSSNGASDWAKSLDRQLEFYQWLQSAEGAIAGGATNSWNGRYEAVPSGTSTFYGMGYVENPVYADPGSNTWFGMQVWSMQRVAELYYKTGDARAKKLLDKWAKWINGEIKFNADGTFQIPSTIDWEGQPDTWNPTQGYTGNANLHVKVVNYGTDLGCASSLANTLTYYAAKSGDETSRQNAQKLLDAMWNNYSDSKGISTVEQRGDYHRFLDQEVFVPAGWTGKMPNGDVIKSGVKFIDIRSKYKQDPEWQTMVAALQAGQVPTQRLHRFWAQSEFAVANGVYAILFPDQGPEKLLGDVNGDETVDAIDLAILKKYLLNSSTTINTANADMNSDNAIDAIDYALLKKALLSIQ | 0.542 | | 24 | S | 0.512 | S | 0.85 | In |
| >gi|586602|sp|P37747.1|GLF\_ECOLI RecName: Full=UDP-galactopyranose mutase; Short=UGM; AltName: Full=UDP-GALP mutase; AltName: Full=Uridine 5-diphosphate galactopyranose mutase |  | |  |  |  |  |  |  |
| MYDYIIVGSGLFGAVCANELKKLNKKVLVIEKRNHIGGNAYTEDCEGIQIHKYGAHIFHTNDKYIWDYVNDLVEFNRFTNSPLAIYKDKLFNLPFNMNTFHQMWGVKDPQEAQNIINAQKKKYGDKVPENLEEQAISLVGEDLYQALIKGYTEKQWGRSAKELPAFIIKRIPVRFTFDNNYFSDRYQGIPVGGYTKLIEKMLEGVDVKLGIDFLKDKDSLASKAHRIIYTGPIDQYFDYRFGALEYRSLKFETERHEFPNFQGNAVINFTDANVPYTRIIEHKHFDYVETKHTVVTKEYPLEWKVGDEPYYPVNDNKNMELFKKYRELASREDKVIFGGRLAEYKYYDMHQVISAALYQVKNIMSTD | 0.575 | | 62 | In | 0.922 | In | 0.23 | In |
| >gi|730355|sp|P39767.1|PORI\_RHOBL RecName: Full=Porin |  | |  |  |  |  |  |  |
| EISLNGYGRFGLQYVEDRGVGLEDTIISSRLRINIVGTTETDQGVTFGAKLRMQWDDGDAFAGTAGNAAQFWTSYNGVTVSVGNVDTAFDSVALTYDSEMGYEASSFGDAQSSFFAYNSKYDASGALDNYNGIAVTYSISGVNLYLSYVDPDQTVDSSLVTEEFGIAADWSNDMISLAAAYTTDAGGIVDNDIAFVGAAYKFNDAGTVGLNWYDNGLSTAGDQVTLYGNYAFGATTVRAYVSDIDRAGADTAYGIGADYQFAEGVKVSGSVQSGFANETVADVGVRFDF | 0.489 | | 11 | In | 0.96 | In | -1.25 | S |
| >gi|1169240|sp|P43387.2|DCMA\_METS1 RecName: Full=Dichloromethane dehalogenase; Short=DCM dehalogenase | | | | |  |  |  |  |
| MSTKLRYLHHPASQPCRAVHQFMLENNIEFQEEIVDITTDINEQPEFRERYNPTGQVPILVDGDFTIWESAAIVYYLSEKYDCSSSWWGSTLEERGHIQQYMHWYAYTLRLGGGAFHWTIFAPMIYGYDKDFTVEVTKGRFLLYESFDILEKYWLKDGDYLCGNTLSYPDLATCQDLVSHDAGRIIPTSMWDSHPKVKAWFARMMDREHAKTVSAWQYENVRKYLDDGVKLNFQRKTAVLKGTEVYSGHNNGIIYNGDDDSFVTQHG | 0.669 | | 13 | In | 0.813 | In | -0.86 | S |
| >gi|2507248|sp|P49275.2|DERF3\_DERFA RecName: Full=Mite allergen Der f 3; AltName: Full=Allergen Der f III; AltName: Allergen=Der f 3; Flags: Precursor |  | |  |  |  |  |  |  |
| MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEYWILTAAHCVNGQSAKKLSIRYNTLKHASGGEKIQVAEIYQHENYDSMTIDNDVALIKLKTPMTLDQTNAKPVPLPAQGSDVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCDQLYSKAGADVSENMICGGDVANGGVDSCQGDSGGPVVDVATKQIVGIVSWGYGCARKGYPGVYTRVGNFVDWIESKRSQ | 0.567 | | 78 | In | 0.974 | In | 1.12 | In |
| >gi|2498406|sp|Q06700.1|GCDA\_ACIFV RecName: Full=Glutaconyl-CoA decarboxylase subunit alpha; AltName: Full=Carboxyltransferase | | | | | | | | |
| MGFYSMPRYFQNMPQVGKPLKKADAANEEQLKKIEEEIHQLIKEAQEAGKADADVNKRGELTALQRIEKLVEPGSWRPLNTLFNPQGNKNGSVAIVKGLGRVNGKWCVVVASDNKKLAGAWVPGQAECLLRASDTAKTLHVPLVYVLNCSGVKFDEQEKVYPNRRGGGTPFFRNAELNQLGIPVIVGIYGTNPAGGGYHSISPTVIIAHEKANMAVGGAGIMGGMNPKGHVDLEYANEIADMVDRTGKTEPPGAVDIHYTETGFMREVYASEEGVLEGIKKYVGMLPKYDPEFFRVDDPKAPAFPADDLYSMVPLNDKRAYDIYNVIARLFDNSELHEYKKGYGPEMVTGLAKVNGLLVGVVANVQGLLMNYPEYKAAGSVGIGGKLYRQGLVKMNEFVTLCARDRLPIVWIQDTTGIDVGNDAEKAELLGLGQSLIYSIQTSHIPQFEITLRKGTAAAHYVLGGPQGNDTNAFSIGTAATEIAVMNGETAATAMYSRRLAKDRKAGKDLQPTIDKMNNLIQAFYTKSRPKVCAELGLVDEIVDMNKIRGYVEAFTEAAYQNPESICPFHQMILPRAIREFETFVKK | 0.528 | | 70 | S | 0.573 | S | 1.01 | In |
| >gi|27923967|sp|Q27607.2|DPOG1\_DROME RecName: Full=DNA polymerase subunit gamma-1, mitochondrial; AltName: Full=Mitochondrial DNA polymerase catalytic subunit; Short=Protein tamas; Flags: Precursor |  | |  |  |  |  |  |  |
| MQFHLIRKYASKVSREHYASSSVKIFRRVKPPQKVNKPKKPENVENGPTEYAENLVKVQMISRNLHAQLFPQAPRSISEQQVASAKVYKDELRRHGVDIESSAPVSDVQLKLPALRGANIEEHFHNIAKEQVQPYEELLLPLVQCEQLPKRPKRWAFHTGWTAYDPEDGTATPVDHPLEKGLVFDVEVCVSEGQAPVLATAVSTKRWYSWVSSKLTKHRLSVEKLEPLDVDTDSERPHYTTDELIPLGTTGPGLVVGHNVSYDRARLKEQYLTEDTGTRFVDTMSLHMCVSGVTSYQRAMLKSKKEPAAEDLGWLEQSSLNSLVEVHRLYCGGDTLSKEPRNIFVEGTLEQVRQSFQSLTNYCASDVEATHRILRVLYPLYAERFPHPASLAGMLEMGSAYLPVNSNWERYIREAQLTYEDLSIEAKYHLGRRAEEACSLLLDDQYRQNLWLWDEDWSVQELKLKQPPKRKPLPTVELKDSGNTPEERRLQAKFQHLYDQQALLPARRPLLPGYPLWYRKLCRKPPAKRADEILEDDEEPWSPGASEISTGMQIAPKLLSLCWEGYPLHYEREQGWGFLVPFRSDSEGVDRLPMEQLLAHCPVPEFARLSASKAESDMAFDMLPGQVEQHLGKREHYKKLSQKQQRLETQYQGSGVWCNKVLDDCCFFLKLPHKNGPSFRVGNPLSKDFLNKFAENVLSSGDPSCQAAARVIDIARMMSYWRNNRDRIMGQMVVWLDSQQLPNEFTGEKCQPIAYGAICPQVVACGTLTRRAMEPTWMTASNSRPDRLGSELRSMVQAPPGYRLVGADVDSQELWIASVLGDAYACGEHGATPLGWMTLSGSKSNGSDMHSITAKAVGISRDHAKVINYARIYGAGQLFAETLLRQFNPTFSASEAKAKAMKMFSITKGK | 0.533 | | 63 | In | 0.575 | In | 0.96 | In |
| RVYRLREEFHDELEDRAYSSYEASRLAIQRNRTLAEVFHRPNWQGGTESAMFNRLEEIATGSQPRTPFLGGRLSRALEADTGPEQEQRFLPTRINWVVQSGAVDFLHLMLVSMRWLMGSHVRFCLSFHDELRYLVKEELSPKAALAMHITNLMTRSFCVSRIGLQDLPMSVAFFSSVEVDTVLRKECTMDCKTPSNPHGLRIGYGIQPGQSLSVAEAIEKAGGNDVSQWDWIKKS | 0.485 | | 21 | In | 0.531 | S | 0.76 | In |
| >gi|2498470|sp|Q47278.1|HRPN\_ERWCH RecName: Full=Harpin HrpN; AltName: Full=Harpin-Ech |  | |  |  |  |  |  |  |
| MQITIKAHIGGDLGVSGLGLGAQGLKGLNSAASSLGSSVDKLSSTIDKLTSALTSMMFGGALAQGLGASSKGLGMSNQLGQSFGNGAQGASNLLSVPKSGGDALSKMFDKALDDLLGHDTVTKLTNQSNQLANSMLNASQMTQGNMNAFGSGVNNALSSILGNGLGQSMSGFSQPSLGAGGLQGLSGAGAFNQLGNAIGMGVGQNAALSALSNVSTHVDGNNRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVGDKIANMSLGKLANA | 0.505 | | 100 | S | 0.972 | In | 2.99 | In |
| >gi|17432943|sp|Q9ESI9.1|IL5\_SIGHI RecName: Full=Interleukin-5; Short=IL-5; AltName: Full=Eosinophil differentiation factor; AltName: Full=T-cell replacing factor; Short=TRF; Flags: Precursor |  | |  |  |  |  |  |  |
| MRMLLHLSILTLACVWTFAVEIPMHTVVKETLIQLSTHRALLTSNETVRLPVPTHKNHQLCIGEIFRGLDILKNQTVRGGTVETLFQNLSLIKKYIDRQKEKCGEERRRTRQFLDYLQEFLGVMGTEWTMEH | 0.545 | | 36 | In | 0.771 | In | 0.18 | In |
| >gi|296439485|sp|Q9ULZ9.4|MMP17\_HUMAN RecName: Full=Matrix metalloproteinase-17; Short=MMP-17; AltName: Full=Membrane-type matrix metalloproteinase 4; Short=MT-MMP 4; Short=MTMMP4; AltName: Full=Membrane-type-4 matrix metalloproteinase; Short=MT4-MMP; Short=MT4MMP; Flags: Precursor |  | |  |  |  |  |  |  |
| MRRRAARGPGPPPPGPGLSRLPLPLLLLLALGTRGGCAAPAPAPRAEDLSLGVEWLSRFGYLPPADPTTGQLQTQEELSKAITAMQQFGGLEATGILDEATLALMKTPRCSLPDLPVLTQARRRRQAPAPTKWNKRNLSWRVRTFPRDSPLGHDTVRALMYYALKVWSDIAPLNFHEVAGSAADIQIDFSKADHNDGYPFDGPGGTVAHAFFPGHHHTAGDTHFDDDEAWTFRSSDAHGMDLFAVAVHEFGHAIGLSHVAAAHSIMRPYYQGPVGDPLRYGLPYEDKVRVWQLYGVRESVSPTAQPEEPPLLPEPPDNRSSAPPRKDVPHRCSTHFDAVAQIRGEAFFFKGKYFWRLTRDRHLVSLQPAQMHRFWRGLPLHLDSVDAVYERTSDHKIVFFKGDRYWVFKDNNVEEGYPRPVSDFSLPPGGIDAAFSWAHNDRTYFFKDQLYWRYDDHTRHMDPGYPAQSPLWRGVPSTLDDAMRWSDGASYFFRGQEYWKVLDGELEVAPGYPQSTARDWLVCGDSQADGSVAAGVDAAEGPRAPPGQHDQSRSEDGYEVCSCTSGASSPPGAPGPLVAATMLLLLPPLSPGALWTAAQALTL | 0.524 | | 54 | S | 0.959 | In | 0.93 | In |
| >gi|1083677|pir||S32494 glucokinase regulator - rat |  | |  |  |  |  |  |  |
| MPGTKRYQHVIETPEPGEWELSGYEAAVPITEKSNPLTRNLDKADAEKIVKLLGQCDAEIFQEEGQIVPTYQRLYSESVLTTMLQVAGKVQEVLKEPDGGLVVLSGGGTSGRMAFLMSVSFNQLMKGLGQKPLYTYLIAGGDRSVVASREQTEDSALHGIEELKKVAAGKKRVVVIGISVGLSAPFVAGQMDYCMDNTAVFLPVLVGFNPVSMARNDPIEDWRSTFRQVAERMQKMQEKQEAFVLNPAIGPEGLSGSSRMKGGGATKILLETLLLAAHKTVDQGVVSSQRCLLEILRTFERAHQVTYSQSSKIATLMKQVGISLEKKGRVHLVGWQTLGIIAIMDGVECIHTFGADFQDIRGFLIGDHSDMFNQKDELTNQGPQFTFSQDDFLTSILPSLTETDTVVFIFTLDDNLTEVQALAERVREKCQNIQALVHSTVGQSLPAPLKKLFPSLISITWPLLFFDYEGTYVQKFQRELSTKWVLNTVSTGAHVLLGKILQNHMLDLRIANSKLFWRALAMLQRFSGQSKARCIESLLQAIHFPQPLSDDVAPLPSPATSRLPTRRKR | 0.439 | | 40 | S | 0.888 | In | 0.71 | In |
| >gi|2554797|pdb|1AKJ|A Chain A, Complex Of The Human Mhc Class I Glycoprotein Hla-A2 And The T Cell Coreceptor Cd8 | | | | |  |  |  |  |
| GSHSMRYFFTSVSRPGRGEPRFIAVGYVDDTQFVRFDSDAASQRMEPRAPWIEQEGPEYWDGETRKVKAHSQTHRVDLGTLRGYYNQSEAGSHTVQRMYGCDVGSDWRFLRGYHQYAYDGKDYIALKEDLRSWTAADMAAQTTKHKWEAAHVAEQLRAYLEGTCVEWLRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFYPAEITLTWQRDGEDQTQDTELVETRPAGDGTFQKWAAVVVPSGQEQRYTCHVQHEGLPKPLTLRWEP | 0.738 | | 35 | In | 0.973 | In | -0.66 | S |
| >gi|149653|gb|AAA03018.1| listeriolysin precursor [Listeria monocytogenes] |  | |  |  |  |  |  |  |
| MKKIMLVFITLILVSLPIAQQTEAKDASAFNKENSISSMAPPASPPASPKTPIEKKHADEIDKYIQGLDYNKNNVLVYHGDAVTNVPPRKGYKDGNEYIVVEKKKKSINQNNADIQVVNAISSLTYPGALVKANSELVENQPDVLPVKRDSLTLSIDLPGMTNQDNKIVVKNATKSNVNNAVNTLVERWNEKYAQAYPNVSAKIDYDDEMAYSESQLIAKFGTAFKAVNNSLNVNFGAISEGKMQEEVISFKQIYYNVNVNEPTRPSRFFGKAVTKEQLQALGVNAENPPAYISSVAYGRQVYLKLSTNSHSTKVKAAFDAAVSGKSVSGDVELTNIIKNSSFKAVIYGGSAKDEVQIIDGNLGDLRDILKKGATFNRETPGVPIAYTTNFLKDNELAVIKNNSEYIETTSKAYTDGKINIDHSGGYVAQFNISWDEVNYDPEGNEIVQHKNWSENNKSKLAHFTSSIYLPGNARNINVYAKECTGLAWEWWRTVIDDRNLPLVKNRNISIWGTTLYPKYSNKVDNPIE | 0.621 | | 75 | S | 0.983 | In | 1.81 | In |
| >gi|145577|gb|AAD15038.1| corA [Escherichia coli] |  | |  |  |  |  |  |  |
| MLSAFQLENNRLTRLEVEESQPLVNAVWIDLVEPDDDERLRVQSELGQSLATRPELEDIEASARFFEDDDGLHIHSFFFFEDAEDHAGNSTVAFTIRDGRLFTLRERELPAFRLYRMRARSQSMVDGNAYELLLDLFETKIEQLADEIENIYSDLEQLSRVIMEGHQGDEYDEALSTLAELEDIGWKVRLCLMDTQRALNFLVRKARLPGGQLEQAREILRDIESLLPHNESLFQKVNFLMQAAMGFINIEQNRIIKIFSVVSVVFLPPTLVASSYGMNFEFMPELKWSFGYPGAIIFMILAGLAPYLYFKRKNWL | 0.259 | | 47 | In | 0.678 | In | -1.82 | S |
| >gi|37931645|gb|AAO83646.1| toxin B [[Clostridium] difficile] |  | |  |  |  |  |  |  |
| EENKVSQVKIRFVNVFKDKTLANKLSFNFSDKQDVPVSEIILSFTPSYYEDGLIGYDLGLVSLYNEKFYINNFGMMVSGLIYINDSLYYFKPPVNNLITGFVTVGDDKYYFNPINGGAASIGETIIDDKNYYFNQSGVLQTGVFSTEDGFKYFAPANTLDENLEGEAIDFTGKLIIDENIYYFEDNYRGAVEWKELDGEMHYFSPETGKAFKGLNQIGDDKYYFNSDGVMQKGFVSINDNKHYFDDSGVMKVGYTEIDGKHFYFAENGEMQIGVFNTEDGFKYFAHHNEDLGNEEGEEISYSGILNFNNKIYYFDDSFTAVVGWKDLEDGSKYYFDEDTAEAYIGLSLINDGQYYFNDDGIMQVGFVTINDKVFYFSDSGIIESGVQNIDDNYFYIDDNGIVQIGVFDTSDGYKYFAPANTVNDNIYGQAVEYSGLVRVGEDVYYFGETYTIETGWIYDMENESDKYYFDPETKKACKGINLIDDIKYYFDEKGIMRTGLISFENNNYYFNENGEMQFGYINIEDKMFYFGEDGVMQIGVFNTPDGFKYFAHQNTLDENFEGESINYTGWLDLDEKRYYFTDEYIAATGSVIIDGEEYYFDPDTAQ | 0.528 | | 17 | S | 0.791 | In | -2.12 | S |
| >gi|32329334|gb|AAP74699.1| acidocalcisomal exopolyphosphatase [Trypanosoma brucei] |  | |  |  |  |  |  |  |
| MTAVVNEFLKRGVRALAARQDSVLVMGNEGGDMDTVIGSIFLAMYLEKRDVFGVGSYVPVLNFEKDDLPLRQDVVKLLSRHNVSTDSIYSVKQSGNGVDFLDLHQMKLPIVLYDHNKLSPEQVYLGERIVGVVDHHEDEQLYVDQTKCLRRICKTGSACTLVAELFNEAGLEVPCPELLLAPIVVDTVNFEPSQKRVTERDILASRLLVGRDDCGDYLTGMFKELMAWKNDIHCLTVPQHLRRDYKNFEFPFISAENKILRVGISSISCRSDELLSVHGVSSVSSNCIEFIKQRSIDMLLLTFAGERTPGSYCRQLGVVAKDEGLAALQAYCKKSPSGLDFTLLEDVTVNEWAFSIYELSDPSVSRKKLVPSLTSFLSVWNNL | 0.445 | | 72 | S | 0.976 | In | 0.06 | In |
| >gi|13363673|dbj|BAB37623.1| FKBP-type peptidyl-prolyl cis-trans isomerase [Escherichia coli O157:H7 str. Sakai] | | |  |  |  |  |  |  |
| MKVAKDLVVSLAYQVRTEDGVLVDESPVSAPLDYLHGHGSLISGLETALEGHEVGDKFDVAVGANDAYGQYDENLVQRVPKDVFMGVDELQVGMRFLAETDQGPVPVEITAVEDDHVVVDGNHMLAGQNLKFNVEVVAIREATEEELAHGHVHGAHDHHHDHDHDGCCGGHGHDHGHEHGGEGCCGGKGNGGCGCH | 0.813 | | 100 | S | 0.712 | S | -2.98 | S |
| >gi|345220|emb|CAA00187.1| polypeptide with porcine growth hormone activity [synthetic construct] |  | |  |  |  |  |  |  |
| MFPAMPLSSLFANAVLRAQHLHQLAADTYKEFERAYIPEGQRYSIQNAQAAFCFSETIPAPTGKDEAQQRSDVELLRFSLLLIQSWLGPVQFLSRVFTNSLVFGTSDRVYEKLKDLEEGIQALMRELEDGSPRAGQILKQTYDKFDTNLRSDDALLKNYGLLSCFKKDLHKAETYLRVMKCRRFVESSCAF | 0.447 | | 48 | In | 0.656 | In | 0.23 | In |
| >gi|56675226|emb|CAC80860.2| NADP-isocitrate dehydrogenase [Haloferax volcanii] |  | |  |  |  |  |  |  |
| MSYDQIEVPDDGEKITVDEETGELSVPDNPIIPIIHGDGIGTDVGPAAQKVLDAAAEATGRSVSWMRVYAGSSARDKYDENLPEDTVSAIRNHRVAIKGPLTTPVGAGFRSLNVALRKKLDLYANVRPTYHLDGVPSPVKNPSAMDMVTFRENTEDVYAGIEWEAGTDEVQKVKEFVEEEMGADGVIHDGPVGIGIKPITEFGTKRLVREAIEYALENDRPSVTLVHKGNIMKFTEGAFRDWGYELAEEEFGDVTITEDELWEEYDGKRPEDKVVVKDRIADNMLQQLLTRTANYDVIATMNLNGDYMSDAAGAQIGGLGIAPGANFGEGLCLAEPVHGSAPKYAGKDKVNPTAMILSGRLMFEYMGWKDAGKLIRDTVEKTISDGDVTYDLERQIEGGNKLATSEYADKVVENIKELA | 0.463 | | 88 | In | 0.597 | S | -1.39 | S |
| >gi|379056381|ref|NP\_006221.2| DNA polymerase delta subunit 2 isoform 2 [Homo sapiens] |  | |  |  |  |  |  |  |
| MGGAGARGLAGCGAPRVNLLGLGEAVWTKQVRSVAMFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHIYATRLIQMRPFLENRAQQHWGSGVGVKKLCELQPEEKCCVVGTLFKAMPLQPSILREVSEEHNLLPQPPRSKYIHPDDELVLEDELQRIKLKGTIDVSKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTDRFVLLVSGLGLGGGGGESLLGTQLLVDVVTGQLGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLTKKTQAASVEAVKMLDEILLQLSASVPVDVMPGEFDPTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVSDIFRYSSMEDHLEILEWTLRVRHISPTAPDTLGCYPFYKTDPFIFPECPHVYFCGNTPSFGSKIIRGPEDQTVLLVTVPDFSATQTACLVNLRSLACQPISFSGFGAEDDDLGGLGLGP | 0.494 | | 57 | In | 0.789 | In | 0.77 | In |
| MVNPTTSEVHPTMGVKIFSAGVAACLADIITFPLDTAKVRLQIQGEGQISSTIRYKGVLGTITTLAKTEGLPKLYSGLPAGIQRQISFASLRIGLYDTVQEYFSSGKETPPTLGNRISAGLMTGGVAVFIGQPTEVVKVRLQAQSHLHGIKPRYTGTYNAYRIIATTESFSTLWKGTTPNLLRNVIINCVELVTYDLMKGALVNNQILADDVPCHLLSAFVAGFCTTFLASPADVVKTRFINSLPGQYPSVPSCAMTMLTKEGPTAFFKGFVPSFLRLASWNVIMFVCFEQLKKELSKSRQTVDCTT | 0.483 | | 28 | In | 0.866 | In | 1.94 | In |
| >gi|267045|sp|P18417.2|STSY\_CATRO RecName: Full=Strictosidine synthase; Flags: Precursor |  | |  |  |  |  |  |  |
| MANFSESKSMMAVFFMFFLLLLSSSSSSSSSSPILKKIFIESPSYAPNAFTFDSTDKGFYTSVQDGRVIKYEGPNSGFTDFAYASPFWNKAFCENSTDPEKRPLCGRTYDISYDYKNSQMYIVDGHYHLCVVGKEGGYATQLATSVQGVPFKWLYAVTVDQRTGIVYFTDVSSIHDDSPEGVEEIMNTSDRTGRLMKYDPSTKETTLLLKELHVPGGAEISADGSFVVVAEFLSNRIVKYWLEGPKKGSAEFLVTIPNPGNIKRNSDGHFWVSSSEELDGGQHGRVVSRGIKFDGFGNILQVIPLPPPYEGEHFEQIQEHDGLLYIGSLFHSSVGILVYDDHDNKGNSYVSS | 0.657 | | 64 | In | 0.809 | In | 0.87 | In |
| >gi|131825|sp|P21867.3|RAFR\_ECOLX RecName: Full=HTH-type transcriptional regulator RafR; AltName: Full=Raffinose operon repressor | | | | | | | | |
| MSLKAIATTLGISVTTVSRALGGFSDVAASTRERVEAEARRRGYRPNTQARRLKTGKTDAIGLVYPENDVPFNSGVFMDMVSCISRELAYHDIDLLLIADDEHADCHSYMRLVESRRIDALIIAHTLDDDPRITHLHKAGIPFLALGRVPQGLPCAWFDFDNHAGTWQATQKLIALGHKSIALLSENTSHSYVIARRQGWLDALHEHGLKDPLLRLVSPTRRAGYLAVMELMSLPAPPTAIITDNDLSGDGAAMALQLRGRLSGKEAVSLVVYDGLPQDSIIELDVAAVIQSTRSLVGRQISDMVYQIINGASPESLQITWTPIFYPGSTVHSPSF | 0.517 | | 22 | In | 0.971 | In | 0.41 | In |
| >gi|2497984|sp|P97521.1|MCAT\_RAT RecName: Full=Mitochondrial carnitine/acylcarnitine carrier protein; AltName: Full=Carnitine/acylcarnitine translocase; Short=CAC; AltName: Full=Solute carrier family 25 member 20 |  | |  |  |  |  |  |  |
| MAEEPKPISPLKNLLAGGFGGVCLVFVGHPLDTVKVRLQTQPPSLPGQPPMYSGTIDCFRKTLFREGITGLYRGMAAPIIGVTPMFAVCFFGFGLGKRLQQKSPEDELTYPQLFTAGMLSGVFTTGIMTPGERIKCLLQIQASSGKNKYSGTLDCAKKLYQEFGIRGFYKGTALTLMRDVPASGMYFMTYEWLKNLFTPQGKSVHDLSVPRVLVAGGFRGIFNWVVAIPPDVLKSRFQTAPPGKYPNGFRDVLRELIREEGVTSLYKGFNAVMIRAFPANAACFLGFEIPMKILNWIAPNL | 0.674 | | 26 | In | 0.833 | In | 2 | In |
| >gi|29336904|sp|Q97Q41|MURB\_STRPN UDP-N-acetylenolpyruvoylglucosamine reductase (UDP-N-acetylmuramate dehydrogenase) | | | | | | | | |
| MSVREKMLEILEGIDIRFKEPLHSYSYTKVGGEADYLVFPRNRFELARVVKFANQENIPWMVLGNASNIIVRDGGIRGFVILCDKLNNVSVDGYTIEAEAGANLIETTRIALRHSLTGFEFACGIPGSVGGAVFMNAGAYGGEIAHILQSCKVLTKDGEIETLSAKDLAFGYRHSAIQESGAVVLSVKFALAPGTHQVIKQEMDRLTHLRELKQPLEYPSCGSVFKRPVGHFAGQLISEAGLKGYRIGGVEVSEKHAGFMINVADGTAKDYEDLIQSVIEKVKEHSGITLEREVRILGESLSVAKMYAGGFTPCKR | 0.621 | | 61 | S | 0.909 | In | 0.78 | In |
| >gi|1077122|pir||S50990 galactokinase (EC 2.7.1.6) GAL3 [similarity] - yeast (Saccharomyces cerevisiae) |  | |  |  |  |  |  |  |
| MNTNVPIFSSPVRDLPRSFEQKHLAVVDAFFQTYHVKPDFIARSPGRVNLIGEHIDYCDFSVLPLAIDVDMLCAVKILDEKNPSITLTNADPKFAQRKFDLPLDGSYMAIDPSVSEWSNYFKCGLHVAHSYLKKIAPERFNNTPLVGAQIFCQSDIPTGGGLSSAFTCAAALATIRANMGKNFDISKKDLTRITAVAEHYVGVNNGGMDQATSVYGEEDHALYVEFRPKLKATPFKFPQLKNHEISFVIANTLVKSNKFETAPTNYNLRVIEVTVAANALATRYSVALPSHKDNSNSERGNLRDFMDAYYARYENQAQPWNGDIGTGIERLLKMLQLVEESFSRKKSGFTVHEASTALNCSREEFTRDYLTTFPVRFQVLKLYQRAKHVYSESLRVLKALKMMTSATFHTDEDFFTDFGRLMNESQASCDKLYECSCIETNQICSIALANGSFGSRLTGAGWGGCTIHLVPSGANGNVEQVRKALIEKFYNVRYPDLTDEELKDAIIVSKPALGTCLYEQ | 0.417 | | 48 | In | 0.978 | In | 0.76 | In |
| >CAP350\_3|PROSO |  | |  |  |  |  |  |  |
| MAHHHHHHVDDDDKMEELEKQQQFTEEEDNLYAEASEKLCTPLLDLLTREKNQLEAQLKSSLNEEKKSKQQLEKISLLTDSLLKVFVKDTVNQLQQIKKTRDEKIQLSNQELLGDDQKKVTPQDLSQNVEEQSPSISGCFLSSELEDEKEEISSPDMCPRPESPVFGASGQEELAKRLAELELSREFLSALGDDQDWFDEDFGLSSSHKIQKNKAEETIVPLMAEPKRVTQQPCETLLAVPHTAEEVEILVHNAAEELWKWKELGHDLHSISIPTKLLGCASKGLDIESTSKRVYKQAVFDLTKEIFEEIFAEDNLNQPVWMKPCRINSSYFRRVKNPNNLDEIKSFIASEVLKLFSLKKEPNHKTDWQKMMKFGRKKRDRVDHILVQELHEEEAQWVNYDEDELCVKMQLADGIFETLIKDTIDVLNQISEKQGRMLLV | 0.692 | | 99 | S | 0.833 | In | -1.88 | S |
| >ed8e29ce41912405d982c805c421345d17345197 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTSRQSGNVSLVSQWFIRQGCVEQVLAALPAYVQQVMKQEPGTLIYLVNTPLPEGGPGSALQSLPPAIHPSLLFFEEYASEDAFLAHVKGAAFTRFVDEYGQCFISSDGRPYTTVTFLHRQQGFVRGQDGQASRAEQLGCQNRHPAVMFEIIARDQDQSKAFYSEVFGWRYQSGSSGFAYVHFPPQLRALLGGIGQTVSGVAGMEPGHSFYLLVEDLQLAIDRALAAGGSPHMPITSVDGYTFAMIKDPEGNPIGLLQAV | 0.164 | | 37 | In | 0.541 | In | 0.61 | In |
| >8716af1a3ecd187be19666e01bf03328c22b09f6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPYKRYGEIFKKLREQKNFSLSHFSEIGISKASLSRFELGQTMISFERLDSALQEMNVTLAEYEHFINNFSMDYKEEFLEDIILADIADDVDKLHSLYLEAMEYDSKMLAYCAKSRYETLTQMEADDVVEYLYDVGEWGYFELSIFYLTLDSFGEREIMYLMKELWGKSKHLYGVFKYRRRVLQSSYRAVVLLSSKGARDSARSILQKSYPKDDFYDLYVENLRNLAHGFYSYCFKDKISGEKQIKNAIEIFGQVGYEDLADYYQKRYQKLLGKLLT | 0.186 | | 60 | In | 0.678 | In | -0.7 | S |
| >daa72cdb62c581801905bd43a21891dd26ee0dfc |  | |  |  |  |  |  |  |
| MKKLFPLALALGGALLSHAAATDIRIYPSFTEVRESVSSGSNTLTVALPQEAWDGVIQGSLDLEGLSFNSAVQKLEANWLSGLEGKTVYLKRDGGKTEPVTLVRARDLLVKDAGGKYFTVRYEDLQFDVLPPANPLSPSRTLVFDLKAPGSGTLSYLTRSVSWTPRYTLKASDAGAQLSALADIRNTTDQPYDVKNTELYAGDVNVQGDSYPTPVAMGFAARSEVAAAPAPKIQSGGDLRGLYKYTLSSAFTLPANSVVTLPFLTPKLTNFERYVGLETYFNTGTQDGTLNRFYRFTADDRLPAGPITVREEGRIVGQTNISDTRKGGKVEFSLGDDPDVHYTRTVQTVTQVKNDKGNVTKTTYKVTYAFESSKTRAVRAEITERVGGRRVIIDSAAPVQNQGTATLKVDVPAGGKVSRSFTVIVDNGLEHHHHHH | 0.669 | | 44 | S | 0.556 | S | 1.39 | In |
| >b12ee41f74b227cd301bb10b91be35d4d55c4ab4 |  | |  |  |  |  |  |  |
| MSYIRLVTWNVDFDSPFNYERFTAIAEEVLGAKPGVVLFQEVSDLPFSSWQGEKEQSTITSARQHDSCYKVLLRRLEALYEPIVDLGLPSEQAYFVMAFVDRSKYRVHGYEYTEFENSSQGRGLLAIQLEPRDMCGDFKFRVLTSHLESGTACSEVRVQQMRQIAYEMLEGDTPAIFAGDTNFREKEKAGFEKEIAKAIGSEEMRLFDLFVEVGEPSHLRFTWDTRTNTNKVKELPPRFRPRARFDQVLFTRPFQANAMRLLGRERLGHAVFPSDHYGIYGELRF | 0.658 | | 37 | In | 0.577 | In | -0.19 | S |
| >d5f82c9b90b9562817c9c7ad52570f00c10ec215 |  | |  |  |  |  |  |  |
| MENTIYLNGYEFLFEREIMDFYNMKSYLTSYTSNIQLENLDRNDDNLEKDYEFFKLIEKDIEIITNGKKVNEMEKISFDIFSMLEIYLDKKSYFCKILNIDELKRKASMIQTFYMQQNQDNRYTKILQNIEKYKIVIQDEQLLFNSINDNKFIKCLFCSPYYRNFEFSIKEKGFYIVDFLEDVAIPVKLFEKIKENYVEIYGKIDTDRISNSYFKEKLSKFFKKEIKDYTFSYNLKIHYENKKIKNVYEKTILKMDNDLELTEKVKVKGKEKE | 0.272 | | 96 | In | 0.866 | In | -0.33 | S |
| >74950451e4bf55c07d2fe70ed9952c2cfe761128 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMRVEITARNVKELLKKIDETLNEDVTEVYINLRPTKEVVVRILENAPNVKVIGCPPSLYPMVSKKVIRALEQLGIKIIPIEKGRGRPKKYSPKVIQLINKMREEGKSPREISKALGIPIRTLYYLIEVSGGKKGGS | 0.546 | | 99 | S | 0.703 | S | 0.45 | In |
| >44d16be77e0066dbe9d16647510345635afc5d27 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSHYHNDTARFFYSVNYQKLQSNFVEMGYSIISKNLNPFSTRSDFISTKLLCSNRDLPHEALGQSNNVLNLNDSSLARRAIVLKRPTKPYKFEQGQSEQWRVISHLSLNSLALMKGDAVSHVKELLALYNLPQSKENYLIIESIKKLEFSLTHKLVDGKPFPMFVRGVKAELQIDSSVFRGHSLYIFSQLLSRVFNLKVQINSFVDLVVKDYSSQQELYQCTQNVGGKTLL | 0.343 | | 44 | In | 0.535 | In | 2.14 | In |
| >d4e6b8f94b401199377aa9801158aee3562d96f3 |  | |  |  |  |  |  |  |
| METEFGLTEYASEHTITPVPCLLKEMYSDFIVQEILADHTVLAIPSPDVVLESTGSKKEDIEIEECVAKPDCISEETLAALNDRFSTKGDPVLVKVDDLSKEDRKSIHHFIRERYAGVLITETKEDGILVSHGHTKSSRKRKLWDEKVPKECHFTICKENKETSFACQLIAKFLNVGPNNIRTHGIKDKRAVTSQRVSVTKVHERTILDLNSKLRGIRVFGCEYKDDPVQMGAHWGNRFSIVLRSLPDDSEQLLHQRLETFQNTGFINYFGTQRFGSRSSTTAEIGLAIVKRDWEKAVKMIMTNAMPDHLGYGSVGYAAKCFSQTGDARKAFSKLKGAQAFATVEGNILKCLSKGGTWQNCITEAIPIQSRSLYVHAYQSLIWNKVASRRVKEYGTRVHESDVGANGFSLGEHATHYDIHIPLPGENLPFEGSYGAKWISELLEEDGLTQSSFTALKDRFSLGESSRCLFVEAKELKWKFIRYGNARDLLQDGLQTRAIPEAEQKGPLLALQIQFSLISGSYATVALREVTGSDMGKKAMRDASFKTRGDDEKTEENVLEEKGSDDANELNLVSEDQ | 0.531 | | 75 | S | 0.647 | In | 0.23 | In |
| >a418f2080021d2b59f24ca14bf3f972c2858010d |  | |  |  |  |  |  |  |
| MPDTPAEGYGNTLSSLALDHNWRTIYPLGAYQLSGLAWVDPQALWLRQLPRLPFCQATLGASFLALDRVRGFILLINGENDHSEILNPYDLEPFLDANGLCLYRETLWFCRDTWLYRCHLPDWHVEKMLECRYPIYGVAVDETGIYVACQKSGYIHCFDETGREQYRLSAPGIGCENLALKDGYLWVSDRLEQSIYCLDRHSGHVEWVALTPFAQPTAFTFDATGQLWVAYGGEEAYLRDNPNNREAPLEIDYRDICLIHPLLYHTHREQHYTLSNGYLIEMAYVEELSPLDALHLDNLEWRIALPANSPRQKLLRVEPVGTPFRLETVADQQVAVFDFPELRPYEARLFGWRAWLEVRGMKYHLSFDNIDETQPLPSEFAAQYLVDNDELAMDQPIVQEAAREAVGTETNILRKMLKIRNYVYDRLSYAMRPTIETPDVVLKRGTGSCGEYVGVLLALARLNGIACRTVGRYKCPPYPQKRGIPLQPTYNHVWLEFYVPGVGWVPMESNPDDVVERGPYPTRFFMALPWYHVEVGKGIRFETTNYRDRGVRLGDLALNHVRFTIHSELPPLLLEHHHHHH | 0.283 | | 19 | In | 0.512 | In | -0.53 | S |
| >62a4c0f79996c0dc0dd334b47f744c98a8dfcc57 |  | |  |  |  |  |  |  |
| MSTSTESPDTPTTSQPLLSNKQTSFVVDDLEERIRESARISSPKRAAAAGLPDPKILVDLETHTKEIVNNMDTMLRDMRGSLHGMSDLTLESLQCYNSGVEKACDEADANVKSTYAMLAKVEEVNQSMGNVQKLAGQIKEMRRLVELFETLFHGSLK | 0.503 | | 82 | In | 0.622 | In | -0.19 | S |
| >5e487922b4ca4f3cd320f36d65be9b0eb957beb6 |  | |  |  |  |  |  |  |
| MRDPVSRLPNREQFQSDLYDLADENPGERRVLVLVDAVDMTVAHELTLAMGLAPFETIVRFLAQQLLAYLGRHVRVYHVSVKRFGFLLPAAPGIERFLESLVRRLRRQPPGLELPMIPGVCAGTVEFSTDRDAVPDVLRKAMFALELATLNRSTWAPYDVVRLEHHHHHH | 0.297 | | 53 | In | 0.609 | In | -0.14 | S |
| >01a209c7190392a3ebd3a9f50b62e604018deffc |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRVWSRSTGTRSCPLRSVTMDFSEQLERFIARVDKRRTPALIIPGSRQADTAALLIAALRPERVAFLLTPETTNFPAQMAERLGRQPDAGWLCKTARYTDINQVYRELRAVIEAWSDLEREQILVDLTGGTKPMTVGLAKAAYVLGLGTVYIESDYAQNRVIPGTQRLIEPSDPYEVFGDLEAGEARRFFNAHDYVSAERIYADLARRVPAEDGTFYACMAQLARAYTQWESFDITTAVKTMADLLAHPLPARLALYQSTLHDHYQALISLDATIKAMSNQQQALTTLANRQAILPLLGSLYANALRRETQRRYDTAALLRYRCLELMSQHRLATRGVWVEKPDLDQLKAQIPDLDRSYRAVERTLGFRERGLQPNRDGQYSSITLLNGYMLLTALSDPLIQTITLTDIRQRVNVRNKSILAHGFRQITEAEYREFARVVEQLLDQFFTIAQEQRSSWEERYRFIELPAT | 0.172 | | 31 | In | 0.648 | In | 0.02 | In |
| >5b71c704c09eeb84d64cb01b8bc84a087534ac5b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSELAKEPVLKTGGPEGPCGFESHRLRQPRTGLFFLGGENVRALLVVDLQRDFVDEGGALYFEGAEKVINPILKWVEEFKKENLPIITTQDWHDPEDREFNIWPKHCVANTDGARLTEKLEKALKDYPNHFSVKKNRYSAFYNTNLEKIIRDNEIDEIYVCGVVTHICVLFTVEELRNRDIPVKIITEGVASYDEELHRFALREMKEILGAEFI | 0.487 | | 94 | S | 0.84 | S | -1.04 | S |
| >9119d53843bf3cd0244ccfc404a7146a402c5c95 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVCKIHYSRHLMNFDYIGLFIRSFRQANHESLQSLADRSGVSRSMISQIESGQKSPTIMILAKLADAMSISLEDFIKVPKGLNTLEVLTPSESNIVSKSASAFVCHQLAARSSSSPADLYQFYFIKAGKTQFSANPKSTAVKYVWVEQGELSLYLSSKQVSVKAGQAIKFNASIPHRFECRQGILAKGTFFIAYEN | 0.127 | | 53 | In | 0.523 | In | 1.91 | In |
| >a403cac03e6cf9bf923db497455c85e1790ca8bd |  | |  |  |  |  |  |  |
| MREKLIRLQSLYIDQFKRLQHLLKEKKRRYLHNRKVEHEALGSSLLTGPEGLLAKERENLKRLKCLRRYRQRYGVEALLHRQLKERRMLATDGAAQQAHTTRSSQRCLAFVDDVRCSNQSLPMTRHCLTQKDATAIGDLLTLYCGLMETALD | 0.459 | | 70 | In | 0.8 | In | -1.42 | S |
| >bd313330abb8f2dc20c819fc600931d46af61b1f |  | |  |  |  |  |  |  |
| MAHHHHHHMVKEKLAGGKKRPREESLRTIPPNQSIGSELLDNEESKDVTFKSLGLCEELIGACKEAGWRMPTRIQVATIPVVSEGRDIIGVAQTGSGKTGAYVLPLVNWLLTQAKVPYLSILVMVPTRELAQQVAAQFVMLGSSVGLRVATLVGGADMVDQACELSRRPHVVVGTPGRVKDHLNNTKGFQLVKLHALVLDEADKMLEMDYEKEINAILEHLPHNRQTLLFSATLSTKIDRLQNASLNDPVLLEVHRKNTTVDTLKQYYVFAPFAQMLPYLHLYLTRESGNHILVFCRSAALVHRITLTLRVLGHQALPLMGRMDQKNRNIALTKFKEGRVRILVCTDVAQRGLDIPRTDVVVNFALPDRVEDYIHRVGRTARAGAQGKAVNIISQYDIVLLQKVEASTGVKCEEWPISDGDVAAVLQRVEDAEQEAVKEMRESDQEAKFEREARQLTTARRAKRERGDNDMGYDDAKHGTADFSTLRLRREHESVFQMTKKQQHKSLWAKRREVRKQMKS | 0.41 | | 65 | In | 0.94 | In | 0.67 | In |
| >62f68f32cfef904b3417f8e3b54511cc674cc36d |  | |  |  |  |  |  |  |
| MPAKSYVDLPQYNGDFRSMPAYMDAGDWDAAGIKWVNVHPDNPADHDLPTVMGTMVYSDPETAFPLALMDGTELTMKRTGAAAAVATDHLAVADATSFGVVGAGVQAYTQLEAISKIRDIEEVVVSDVSDDAVQQYVDHFSDRFDVRGGSISEAGHCDILSTVTPVEDPIVTAEDVGDHTHINAMGADAEGKHELADDILLAGTLVIDDHAQTTHSGEINVPYHEDTLADDDIDAEIGEIVVGNADGRTDSDGVTVFDSTGLAIQDVAAAHVVYEHASEHDNGYEFDLLGVLEHHHHHH | 0.363 | | 95 | In | 0.534 | In | -4.3 | S |
| >261a029d7d55eb1eaa536826a482ea1e7db7314a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVKVANKYAKALFDVSLDTNNLETINEELTVINEAVKDKIEQLKMVDSNPTQTAEQRRELINGVFTDINPYIKNMMYVLADNRHISLIADVFKAFQSLYNGHYNQDFATIESTYELSQEELDKIVKLVTQQTKLSKVIVDTKINPDLIGGFRVKVGTTVLDGSVRNDLVQLQRKFRRVN | 0.186 | | 86 | In | 0.749 | S | 0 | S |
| >476a40edb8f4017fd7585de11b2f11ddab7ab524 |  | |  |  |  |  |  |  |
| MKHLEFKGKYAKALIEGRKRLTIRKWTNLKEGDEVLVHSGGKIIGKAKIKAIKKRHVSEITDEEARLDGFRNAEELMEEMKKMGYDGEVYVIHFDFEPLQAVNPHKLYYGDADLEEIARRSLEHLELDERDRLVLETFLSYGSIRKAARKLGGARKRGEIRKVLRKCYNELVKRGLI | 0.464 | | 98 | In | 0.77 | S | -0.06 | S |
| >14f33c0f90a08067b02387bd35331b41c0b339da |  | |  |  |  |  |  |  |
| MAHHHHHHMFVHMAAPQSESRTRSSMRASCMLASATSTAQRKARYIEIVTEHWKALEERLEELLAETEKESAAASESHLRSVGYALNALSLFSNDPQLIIREINMVHVEEQRRQRHDREAQLLITLESQGRLFLLPTLYAEEVEEPVPVLHIESVLTPNEKMGEYTHPWQLLSPDASLYSPSPSPTPDESIGAISPCSSGCISATCSPMLASQPPSVASTRLKVSRRDLWKDMQPPRLPLLDLFMTAPAVVSSTVVANSEVGVPYVMPVDPTYAQHELSRQGALTQVTVADPLSSPQLSGAIVRGGSTSARSSDDHRHPMLLDGTEDLWGSYMEEDVLDYAETIKLGDAEVLLLSFEMNEAVTAAGPAAATRATLTDG | 0.207 | | 78 | In | 0.982 | In | -0.52 | S |
| >5fe54374ca44587bd68ea390ff7e75c7314b31a2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGTSKTSISKTWIENSDGGKSPLCSKFLRVRFFLLMFLLQLLKFLPKNTTMALYAELHRHLGGSVVPRVLWRYFERHSSELISRFADYSQFEDFYTRPRNTLDEYLELHTLVESVQTVETLPYFIYRLVRGAYIFENLAYLELRYTPYLRTPEHLNQSQRIDKMAEIVQVAGLASHQPEYPIVTSQILCMHTRLPYEVNKAIVDLAAQNKQYVCAVDVAGGDSYYADRLEEWISLYDYARSLGVKTTGHLYETTAGCYPELLPYLMRIGHGIQIPLLYPELLNDVAKRGQCLEVCPTTYLKTGTLQDIRQLKLVFDRCFDAGVDIAICTDNAGLHNVRLPFEYENLLTYDIISFKQLQACQDAAFRHAFAWPYSERPASLLNDLLKPELPKVLAIRDSN | 0.25 | | 25 | In | 0.573 | In | -0.07 | S |
| >eb4d63ccd8b1eea150a35e7671e7c05bbb8a5ce9 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIDEPYLTLEELACFSELFSPNRITHGMEEANPEPWVNHVLTVKTEVPQALASLLGKAKLTLLAEVGPYKLWFPLEMRLDDFGQLQPTLGVPEVLDTTGAERSWRLTQPEDVWIFDHDQGEQWSVVSLSSSGMAIRAKSQQQFEQLIGSQELQLQLPDGETMRVKIEPIRHEEGLAIVRFEAEIQEREALRQFLFNRHRSQHAKLYASLRG | 0.171 | | 69 | In | 0.681 | S | -1.21 | S |
| >b02efabcc696545d9ac571dfbb385439e27b23d8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMHISDDEFERAIEQVLDDLPERFARVLENVGIVVADEPNERELATMSNPCGELLGLYEGIPVTKRTTGYSGVMPDVITLFKGPHERVCSTQYELRQRIRKTVLHEIGHFFGFDDEYLHSHGY | 0.166 | | 89 | S | 0.571 | S | -1.81 | S |
| >8bef695ed3d32f77d533d779233690a306a468d5 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGVSGGILGTVMNAREYYRYLAAAREQLWQFVRALPDDDLNRDLIENGERFHNVKDLLLHVTDVEEHWIHLIALGQSVRQRGDWQYDWVEPHAERYDLGWILSYSQAVTQATQAFLDSDPDLERPVKLVYYYPASVTVTLDQLLWHVMTHEVRHTAQAALLIRQLGHTPPWLDYLRFARPAGSLNDVDSAEDGLGLSEDGD | 0.118 | | 25 | In | 0.753 | S | -2 | S |
| >70cef9ab131c3bb2ed067e7fb79552c296898a57 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMALDKDIVGSIEFLEVVGLQGSTYLLKGPNGENVKLNQSEMNDDDELEVGEEYSFFIYPNRSGELFATQNMPDITKDKYDFAKVLKTDRDGARIDVGLPREVLVPWEDLPKVKSLWPQPGDHLLVTLRIDRENHMYGRLASESVVENMFTPVHDDNLKNEVIEAKPYRVLRIGSFLLSESGYKIFVHESERKAEPRLGESVQVRIIGHNDKGELNGSFLPLAHERLDDDGQVIFDLLVEYDGELPFWDKSSPEAIKEVFNMSKGSFKRAIGHLYKQKIINIETGKITLTKKGWSRIDSKE | 0.277 | | 90 | In | 0.502 | In | -0.31 | S |
| >6a3e868ae8297dac35a552afb27d2e9513284176 |  | |  |  |  |  |  |  |
| MAHHHHHHMLQRFSNVSEQQNARGMSPPHLASTPPPSPPRAFDDTGDAERAMHVSPAQHGGGAAVSLERVPVSVPPVCASNKTAGAPSPARASASSQSVRTFSPALLSQLLLAEAARAEAAAAAVAQQQCNGSVEDGSYASAAPFYAPRPVQDSQLPPRMTTTQTTRLFRHHRDSGAASLHEPRPVSPSSVAASPSRLPMDYLTVSIGVVPLPDSEMPHGSAAPRKRSRWWPWSLTAPTVTPNAETGVVGEAAGDTASRITRADGNAAEASWLTVHGNPTVSVHQLHPLRLYTSGRQHTAGTTAGRSSTSPTLKQFTGVTATVVADNVVSIEPSRRTMDVLGWSGVFADVPLALPGARLTNRPGATGVVMKGSKGVHARGGDRDGSSQSEALFCSGAASISVILA | 0.287 | | 89 | In | 0.969 | In | 2.68 | In |
| >dfb29eb7f4aed96586b9f470ea70db7634757422 |  | |  |  |  |  |  |  |
| ALTGCTPAEAQIDDDRAFDRHVLASILSVAVTEPGSITESSGLTADDFAALIVGWFPHVSVLLSVLAVGEHDEDEEAAMVRDLLLKHRSTSGEVGRWLAAMVARRAMQPEHLWEDLGLRSRAELSRLLMRHFEPLARDNTRNMRWKRFFYRKLCEDDGMVMCSTPVCSQCGDFAECFGEESGESRMAIR | 0.338 | | 49 | In | 0.651 | In | -1.3 | S |
| >3b71cb2e203ba9647d3ff93b15c7f1bcf7ef85dd |  | |  |  |  |  |  |  |
| MRALLAFALLLVGLPALADPYQRLYQAAGWPDQRAHFSDALDAAQKRYQDKLPPALYQTLVDNSNRRFAPAEVDQRALNGLRENLPDSASPLNFFESPLGRKVVAAEVLATRRDQLLQHSNGLPRQTASEPRRALVKRLAQVLPAREAGAEVSLALAGVAADSLSQMLPGLPGLLGGGQTGQLLEGQRQRLVQQIGADLENTLLYVYRDLSDAELTQYVNFAESPAGRSYYQAALAALKAGLAVDQAVAP | 0.369 | | 30 | S | 0.603 | S | 0.74 | In |
| >83a623ca52fff09ab2f0bd81e6a415438251d664 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNCSEIPLQYPSLTWPLSRALLIQILEDRLSDRFVAELIWERLGYQPCADSATAWSAGPQTPQLWRDAFPTAPAVIAQRPAAVQLTRSIAKEHKQLLKQQLDFAGYRIDELYPRRTRRATAVNWLLAWLAQRGDALLAEGPLPQPLDPPLDPVKGHPGDPIVE | 0.121 | | 33 | S | 0.5 | S | 0.41 | In |
| >4565c805ee16f5d6fd305786001e60cd12554ca5 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKKLILQMQMSVDGFVGANDDHRWQLWEWGHDIGWDEELKQDFNAVFAGIDTILLSRKMAEEGYLTHWGNAAKKFPADPFYAFAQRIVEVRKVVPSDRLKTSRWERSTVVSGDLPREVNALKAGEGGDIIVFGGAGFASSLIAAGLVDEFQLFVNPAVLGAGRRIFDQGGFRNLRLLGSKAYACGMVVNRYAPAQ | 0.221 | | 40 | In | 0.557 | S | 0.76 | In |
| >968ead15b9527571b39954238c3f7308148460eb |  | |  |  |  |  |  |  |
| MDKTANPIPPGVSQEPGVLCDGQSAIHAWRCGGVVLEAHTGMPTALPRHAHDTYQIGITTRDPGEYLCEGRTWNAPPGSVILFHPGDVHSVVTVGVRNRRDTSLLMFVDPRQMQDIATSLRGVDCGLPVFDDLVIRDAAFIRRFADTHARTRAHANPLEQESRLLALLQCLVGGFSAGPIAPRPVARNRR | 0.311 | | 50 | In | 0.68 | In | 1.29 | In |
| >ff85c43d847b9df6f09ea817ef1452da6a04a598 |  | |  |  |  |  |  |  |
| KGLTYFWPAPLYQWNVTSLTPVQGEVLHENTILIGQIYERSFVPRSYLPVDAVKKLGEDEDFATRLNIKIANRELYPADFISVLQMQLDEPTTPKEWAVIERSSGGYFFGKLVAFQDGDKLYQTDIQTVLNKKLDDAETLRHEIDSLVVDQLKDLGWKLEQLRLDKRKHELNNTVTDDFLAQNLQQKEQVEQELAKLDLQLDGLRLQLSGYALIVEDMTGSHVSIPLEDILDYWYPNQMSLPDKVMHWGKQVWKFLSEDPRESNSEGGVFPAI | 0.721 | | 69 | S | 0.527 | S | -1.39 | S |
| >b511fbc6c13cda2866f2ab5323df21ec802065e4 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHFNKHKFNGRDIWLIGGHSGDIYNDNSKFFYEYMLKEHNDVETYWVVNKDSKVFDKIPGKKLIRGSVENYLYYYNSKAIVFSHAPSADIAPYNFAVPVLNYFHKKTIKVFLNHGTISFKKRKPMNKKFKNIIDNLYKSYNIVTASSEFERNVMVNDWGMLDDSVYIIGNARYDNLPTNEVAQTRDILYTPTWRDWIKFSSGKFTDTDYFKNIMNFLNDDKLNKILDEKDINVKIYMHHLMHEFIDDIKENITGKRIVFLDKGVTLANEIRKSAANITDYSSVAIDFLYMNRPILFYQFDLDEYMEKVDSYIDLKSEMFGSLAYNNDEAVNKLIDIIENNFEVMDNQKNERNKFFRYNDNKNCKRIYDCVLSKIK | 0.252 | | 43 | In | 0.952 | In | 0.85 | In |
| >4ad96dfd1ba40d5a0446d729c7a2c01e244f8573 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKIVFLECSVELVPRSLWSHPQVLKSARRYGIEPGDLLLDKSLHYNAMAELPAKWKRGRPDILHVALLTTTDSPLYNEGLLRIYFQVYDGRLFEVGTGVRVPKNYERFRGLVAQLLKTERVPPGEGEALIRLHSRSLAEFVEREGRFILMWEKGSPTTTTYVAARALSTGLPIGVGCFPRGEFKRSTLRKASEAYSIMGGAPLKTWGVASRIVYALERLKSPFT | 0.25 | | 40 | In | 0.58 | S | 1.26 | In |
| >e7ab09d62aa5da382cb522e202df03c5659d7f8d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKEQPYREEMMSIRDELQELWDIYVAAYRDGDAAGCAAVFTPDAELHSPYAAAARGRAAIEALHGVWTQHATPDKTLGIIEAGASGHLAWSLAAYSEGEATGNGTSLSVFERQAAGGGWLIRMCSLNSTDPGQ | 0.157 | | 52 | In | 0.629 | S | -1.03 | S |
| >8dc139f98eba4a238842f231a053e1be65962040 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSVQVTPTLVREKVKESEVLSSIYHLIEEDQEIQALFRMSNVMAVGRLLYNDHGPVHARIIAGSALEIFDRLLESGVTPSTLSDGTLEDVEEAKAVVLLAAFLHDIGNSVHRDNHELIGAVMSERIIDRIVSKVFPDWSTRKRVFFRSEVMHAIYATAPNVKALTVEAGTVKVADATDMAEGRARIPYLKGKLDMHSLSAISIKQVLISKGSMRPVRIEVKMLSYAGFFQIERVLLPKIETSVIREYVEIAPYIIGREGEEPLQPIFP | 0.265 | | 82 | In | 0.87 | In | -0.15 | S |
| >bfae49cecc7e564dcae8e646c06b052ee83f2b12 |  | |  |  |  |  |  |  |
| MASSSNVINRILRTLKSSRRFCLFLSTTDSLLQNVRSVLPGATYLDISPPLTWKEPQMAVSLQKHVYSIVPTVFYNLTEVPPPEMYEILMKSEEKEVCYHNKPLELPDDILFVFVAKNLGHIPDQIRKLMEVIVVSIPLEPIEDREKIERNELSSLLGEFTAADILESRDLTRKAMQIASAF | 0.515 | | 86 | In | 0.781 | In | 0.14 | In |
| >4aee76adee2ce82f132f37766dd78f20ffc0397a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTKAIQSSVQVGELATGQALTVPIYSFMGSENSAPSVYIQANVHGAEVQGNAVIYQLMTLLEGYQVLGDITLAPLANPLGINQKSGEFTLGRFDPITGVNWNREYFDHNVDIQNWYAEHQHLTNSELFCAYRSMLVETCQARLTHSFGISTGHRLAVNLQAMAHQADIVLDLHTGPKSCKHLYCPEYDIDAARFFSIPYTLIIPNSFGGAMDEATFCPWWQLTEYATSQGREFSVPVSAFTLELASQERIDLADALEDAKGILAYLSHRGVIAEKVNPASMERFGCYLKDYKKFHAPKAGLIEYCASVGEPLTAGKPLVNILRIDLYGSEQAYQAISLPMDCVPILHFASASVLQGTELYKVMTNVFPLQPS | 0.28 | | 51 | In | 0.513 | S | -0.18 | S |
| >e9873964b8a5c24f8179ca5a0648dc6ee1701c90 |  | |  |  |  |  |  |  |
| MVVKMIEKYVEFIGEHELDAIFKIAEKIKDLSILHVNSTKAGGGVAEILNRMLPLMKELGLNVDWKVIKGDNEFFNVTKSFHNSLQNGTGNIPDEYFKIYDKWQEINLSEIPLDYDIMFIHDPQPAGLIKFKKGNSNKWIWRCHIDISNPYPPVWNFLRKYISKYDSMIISVPSFGRDDIEIPQFVIPPSIDPLSIKNRDMSETTILRILYKFGINLEKPLITQVSRFDYAKDPLGVIQAYKLAKRHVDIQLLYVGSPATDDPEGEKVYSEVVKASEGDKDIHLLMLPPYSDLEINVFQTASTVVMQKSIKEGFGLTVSEAMWKRKPVIGGNTGGIPLQVINGITGFLVNSPQGASHYIIYLIRNEEIRRRLGTNAREHIRRNFLITRELRDYLMTIVYVANRGLASLNSHESISNHLEHHHHHH | 0.466 | | 44 | In | 0.627 | In | 1.04 | In |
| >0b125d363dbdda5108c04c7d02414c6597293200 |  | |  |  |  |  |  |  |
| MPNDPSDNQLKTYKETYPKPQVITTSNGAPIYSKTAVLTAGRRGPMLMQDVVYMDEMAHFDRERIPERVVHAKGAGAHGYFEVTHDISKYCKADIFNKVGKQTPLLIRFSTVGGESGSADTARDPRGFAIKFYTEEGNWDLVGNNTPIFFIRDPIHFPNFIHTQKRNPQTHLKDPNMIFDFWLHRPEALHQVMFLFSDRGLPDGYRHMNGYGSHTFKMVNKDGKAIYVKFHFKPTQGVKNLTVEKAGQLASSDPDYSIRDLFNAIEKGDFPVWKMFIQVMTFEQAEKWEFNPFDVTKVWPHGDYPLIEVGKMVLNRNPRNYFAEVEQSAFCPAHIVPGIEFSPDKMLQGRIFSYTDTHFHRLGPNYIQLPVNCPYRSRAHNTQRDGAMAYDNQQHAPNFFPNSFNYGKTRPDVKDTTFPATGDVDRYESGDDNNYDQPRQFWEKVLDTGARERMCQNFAGPLGECHDFIIKGMIDHFSKVHPDFGARVKALIQKQARSHI | 0.441 | | 39 | In | 0.602 | S | 1.13 | In |
| >47430a40f42e98331024c14e53bc58c2473d77aa |  | |  |  |  |  |  |  |
| MVDLQLFTPLIRYSEPEEGEPQTIHPNKEQLSRRHAIIPDQPSENQETSSQGCCSSDNVIIVPHVQISPNESHLFNRAISSGGGLLADSNKITSIDLQRATIASQAFYAEASEPQKNRSPWILKRLYEWSGRAKRREIIKHVQAALETSKDHEIEDDELEKLLPVSFEEMFMGDETTTIPSSKHKYLQAVWELFHTELVFLYRQLFVLRDVYKEPLKRCQVEGCLLLVEPDLLFGNLDQLCRISRTFCQSFLSLLSTVDKENWDCTQLVVDLFERFSKGPSTISAYQAYCINYKATMEYLGSIRQKEERFTEFERICLADERCFRLQLEDLLIAPLQRITRLPILLREIHKRSEEEESKGKVEKVIDTMTESLRSIDDSVQWLHNFERLQQLQTQVVWPNISDLEPKSYVPDFLRVALSRQFCENLLAHPRRKLIHEGPLELVENGRTVDMYAFLFNDMFVLTKTKKCASKLKVKGVPIGKSEHYIVQRQPVPLDSCVFCDADSNDQATPMSLKFAFVIIHLTRYYQVVGIYTLQAADKADKELWIEKFQESIENYESIQLKDMLKCTPLFSSLSLRRCSSSRLMSKSESNSPQLPKEKEKEKEEKKECCSSSTCNNQAPP | 0.36 | | 78 | In | 0.917 | In | -0.06 | S |
| >4a808b1997337a0e19718d570ed9479f684db135 |  | |  |  |  |  |  |  |
| MRYVHVGINVTNLEKSIEFYEKVFGVSPVKVKTDYAKFLLETPGLNFTLNVRDEVKGNQVNHFGFQVDTAEEITLHKERLEKEGFFARDEMDTTCCYAVQDKFWVTDPDGNEWEFFYTKADSNVHKIEESSCCATSNEVAKNSCC | 0.583 | | 99 | S | 0.635 | S | -1.56 | S |
| >16b9c4853d45ca20697d22d6636f908dbf1da011 |  | |  |  |  |  |  |  |
| MYRLQGILKLRTSRAFQQPYTLRFFRQGLSHVSSNRGRGKFKKVPSSLCPMKKPGDVLREILQEKGIISVGTLSRKWPSGRDIYQELALLLLEGDGAIVELEEETSESWDLNGKKVGPSKYAYVRPCLVEKFKVVVDGDEIARRLPDYPWIIVDLMLWDKHIPKEKDKITLQVRETYAVMRRMYYPRKFAITWINEEYKKKNKLPLEKIVSYEGTTAEFLKERGINRVVLLDPNADEALSEKDLEEKAFIIGGIVDMKGDKKGTTAKIGEVLKKEGIEVLRRKIVLRGDVIGVPDRINHITEILIRMLYGEPMERAILAVQAPTHARWRLRREIPKRKIRYLIDGKLYLVVEKELFDELKGWLNIRWEDFVKVLRETGIIALERRRIHRLNKISTYRPDRNGGKRVILLKRAALLCYNYLEHHHHHH | 0.54 | | 92 | In | 0.713 | In | 0.08 | In |
| >000506e4f5c5000e58c5bd4cfa0f79210397ec31 |  | |  |  |  |  |  |  |
| MTQRTAFTLTVSPKIPARLSRLEELSNNLWYSWDRATRALFSRLDQQLWEAVGHSPKAFLRRVDESLLLQAAEDLTFLSHYNSVLSAYDSYHSEPSRYQAINGIEARDQVAYFCFEFGFHESLPVYSGGLGILAGDHCKAASDLCLPFVAVGLLYRQGYFFQTIDGQGNQQPVFCDSDFEDLPVKPALHDDGSEVRISVRFPGRVVTVKVWRAQIGHVGLYLLDTDLPDNSEYDRLITHQLYGGNKTMRIEQEIILGVGGVAALRAMGIKPTIWHSNEGHAAFMMLTRALELVRQGLDFASATEAVAVNTIFTTHTAVPAGHDHFPEDMMHRYFEDFYHELKISREEFMALGHTPGNHDFNMTALAIRMSRMHNGVSRIHRDVSANICHDMWPQIEPEENPIDYVTNGVHVPTFLAQEWTDLFDRRLGSQWRSKQHAPEFWSRIHDIPDHIFWSVRQSLKSQMFYGIRARLTEQNLRNHGSEAHLERLLRFVDPINPNILTLGFARRFATYKRATLLFQDLDWLRKLLLDAARPILLIFAGKAHPADLPGQALIRHIHQVADMPEFRGRILLVEGYDLRLARRLVSGVDVWLNNPIYPLEASGTSGMKAGINGTLNLSILDGWWGEGYDGKNGWGIKPVSENMEDSLRDAEESRAFYEILQDQVIPLYYDHSKFGYSADWVRMAKNSMVSLLPRYGTGRMVGEYVQKFYAPASRQGTGYSQDNFAIARSIAAWKARINAAWDGVSVRRLDTPGKQLEFGSTMHFKLAVKLNGLQPEDVVVELLLSRQYNKTRLSQFKHFRLECTGPLGSHEHQFELNHVPELCGRQQYYLRIYPYHPLLTHPLEMGKMVWLLEHHHHHH | 0.47 | | 13 | In | 0.678 | S | 0.36 | In |
| >9e9fbfb7b3234959d324059e78cfd01d80e19a5e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKRCDRMNYREEYEKKLISPEEAAGLVESGMHIELGGAANTALIIDKYLAKRKDELENVKVGTFIDLAHYEFLKADPNGEVFEWSSGFLYRPVRKTSKELGPCVFRPNLYHDVPKIVREFSKDYDPIDIAYLVTTPMDKHGYFNFGLTCSHMKALAEVAEKVVVVVKENMPWVNGGYDECIHISEVDYIVEDNEMPVPFIPFSIPPTKEDEMIAENILNAETKDGRKLIQDGSTLQVGIGGLPDTVVKMLKEGGYKNLGVHTEMMGDGTLELIEEGVVTNDQKRLDRGKSVFTFALGSLKLYEYLDRNPEVATYPVDYTNDPFIIAQQPKMFSLNQAAEADLMGQINSEQMGLISPTGKLYQVSGTGGQLDFVMGCLFSRDRQGFSILAMYSTHNGTSRIKPILPPGAAVTVPRSMVQVVATEWGVAYLKGLTVKERAIAMIHLAHPDHREWLEKEAEKLGLLPPNYTIPAGKPDYLLYKRD | 0.305 | | 83 | S | 0.561 | S | -0.12 | S |
| >3eaf62a841c07b2341d9e0b92354c4f697a5e38b |  | |  |  |  |  |  |  |
| AANGVVLITTKSGKTGRPTITYNGSASYRKISKKLDVLSPYEFVKLQGEVNSKYSDSYFKPGNDDNDIPYRYQSLDDYMGVKGVNWQDETFNPTWSQDHSLSIMGGTDDSKYNASFSRYIENGIFKNSGFDKTTGKFRLDQKLSKSLSFNITVNYALTNRKGVGTSADSGRFNMLAQILSARPTGGLKLTDDELLDSAIDPEMLESGESLAQVNPVKQTESVTNTKRAEMWSGNGSISWQIIKGLTFKTAGTYNTTNNRTNIFYKDGSKEAYRNGQKPYGRTQMGRDVRWTNFNNLTWKQKVKKHNYDVMLGHEVSFRSTEYLLGEAMDFPFDNLGNDYLGLGATPSKVESSYSEKMLLSFFARGNYNYDNRYLLTATVRADGSTVFSNKNKWGFFPSFSAAWRVSEEAFMKDVDWVSNFKVRLGWGIVGNDRISNYLSMDLYEASKYGVGNNTVTVLTPKQLKNANLKWEGSSTINLGVDLGFLDNRLNVTADFFVKNTKDLLLAQSLAHVTGFDSQMQNIGKIQNKGIELSLNSTNIQTRDFSWQTNFNISFIKNTLKGLASGVESMYARSGFDSNFTAYDYIATVGQSLGLIYGYEFDGVYQSSDFYTTPDNQLILKEGVTNNARYGTVKPGVVKYKDQDGDGIITTNDRTVIGNAMPKWFGGITNTFDYKGIDFSFMLQFNYGNDIYNATRLYSTQSRNGRRNMLAEVADRWSPTNTSNLVPSQDGYIVNDVYSRFIEDGSFLRLKNVTLGYTLPHKWTRKFHVSRLRLYATGQNLFCVSGYSGYDPEVNSASNTPMTPGLDWGAYPKSRVFTFGIDLQF | 0.428 | | 7 | In | 0.629 | In | 2.24 | In |
| >b753dfd642d35df4116e0942b53abb0731de6eed |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHHRKRSRVSELMWTYVDDENDIPVNICDIRRNPKAVVGWGDRDTTAEPVECYLAPTKCVKISGMVGMIPEMSMTDNIARINKHLKERLAADKTHGGTWPWVKVTVDTRVALVYIKFREVEDSTMCFNLLDGYCYDG | 0.128 | | 83 | S | 0.576 | In | 0.04 | In |
| >9370fdbb123a255c0c4389ffbf426dc8ec84b9b8 |  | |  |  |  |  |  |  |
| MLWSNGGGGPREPSSAPSPDHHRAMHSVPPIVASEMQQLIDEMRLQDFDSIRFATYRAACKLRFIQQKTKVHLVDIWNMIEAFRENGLNALPLHTVIKTSRAELLLTTVFHNLNKRLVASQHVDTDVSISLLLAFLLGAYDKQNTGRLTVFSIKVALATLCAGKLVDKLRYIFSQIADSNGLMDHIKFTDFLQQILSLTTAVFEAPTFGFSENAVNQCFHKDEKVSLNVFLDTFLSDPCPPCIMWLPLLHRMASVSNVYHPVVCDACQVRSFTGFRYKCQRCANYQLCQSCFWRGRTSQNHSNEHEMKEYSSYKSPTKQLVHSIHKSLQCIPATSTVGDANIDIFNAKIGGPVSSKPARPLNLNNIVPATPTTIRRQHAATSSADWPTSPVLLPGQASHGGVIDDEHKLIARYAAKLSGRADYPLSNGRSMNSSMVGDERTLIAQLEEENSMMVREMARLESQTTSDDGLAGLRDRKMELEEKMFEMQQRRRELMMQLEHLMAQLNTGPQPSGGVSSASLSQLPFTASDQQLTGVNSTVANAFRAGSLPATSLQGDLLHAADQITTNMSDLVRQLDLAQSDENGVTINGF | 0.329 | | 31 | In | 0.982 | In | 1.04 | In |
| >790f492038cea29ee3ca25d56ce956e1737017f7 |  | |  |  |  |  |  |  |
| MKKEVTLATLSIIFSGTAHSTQNERPDIIVIIADDMGYSDITPFGGEIPTPNLQAMAENGVRMSQYYTSPMSAPARAMLLTGNTSQQAGIGGMWWYENTIGKEGYELRLTDRVTTMAERFKDAGYNTLMAGKWHLGFTPGSTPKDRGFRHSFALMGGGASHFDDAVPLGTVEIFHTYYTRDNQRISLPSSFYSSEAYASQINRWISETPREQPIFAWLAFTAPHDPLQAPDEWISRFKSQYEQGYADVYRQRIARLKKLGFLRDDIPLPGLELDKEWQAMTPEQQKYTAKVMQVYAAMIANMDAQIGTVIETLKKTGRDKNTILVFLSDNGVNPAEGFHYESEPDFWKQFDNRYENIGRKNSFISYGPHWADVSNAPYGRYHKTTSGQGGINTSFMISGPGIIHHGAIDNATMAAYDVAPTLYEFAGIDASKSLSERPTLPMIGVSFKRYLTGESLHAPRTQYGVELHNQAAWIDGEWKLRRLVTVFPQAGNAPWELFNLQRDPLETHNLAANYADKVKILSSAYEAFAKQTMVLYAKGKLIDYVGIDSKTGRYLAVDPQTLQPVPAPLAIPLDTKSDQ | 0.295 | | 16 | In | 0.507 | In | 0.78 | In |
| >dc5d539d776f99492fca0e74509a26791af0162c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPTDIFSFKQFDIDQTGCAMRVGTDGVLLGAWAGEDAAGSIPQHCLDIGTGTGLIALMLAQRFPQARVQGIEIDPIAAECARANAAASPFSDRIVIASGDILDSSLESLIGNQRFDLIVSNPPFFKSSMHAPDRQRTMARHEETLPLEKLICRASELLSPQGRLALITPRDRLKDLRLYAATYRLVSSRLTEVRTLPHKEPKRLLSEWRPADTAIDRSPFTDTLIIHPATGYYSPEYVRLTEPFYTTSFRILAVG | 0.114 | | 32 | In | 0.788 | In | 0.48 | In |
| >1128d42b6ae6edb62dee6ed75a7b792940214581 |  | |  |  |  |  |  |  |
| VLLLIILPREFSLKHDFALKNKKHPPPFFEIDKTKSICKSRLAGSSKASG | 0.55 | | 100 | S | 0.781 | In | -0.36 | S |
| >aefa344b3e880b3645bff243ad10709c4a75766c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNFFVNQYLMALNSGVEHAEFKRLQLFKDHQAPAKLVTRQFDGLLHQNMRRFNIADDQMANLFDFFRETTSFSSRVIKMADLNWPTAYDIKPDPNVSEVRAGDRLVAKVHFVPSTVGHVYFIEIFDHFNNLVQRTDYDERGFKARDEFFSSAGEPITDIFYRPDGSRMAEQYYTHDNNGTNYVSLCHLINYHGRDYYFNGEQEWYRFFLDELNKQYDENNVFIADRPLAAQWPVVNMQTAAKKYLWLPTPHAVDPRDQVYSNLNNAYVYGLHEFLSAWDGVITSTEQQKQDLTQWLGGQPSVPILTISAAIVSKQQAQHAPISISERHAHEIIYTGRLDAERRVDQLVTAFDQVHHKITDATLVIYGYGGELDRLKQQVSQLHLETAVTFAGYQPNLTMAYDQAGAYVYTGESDAQPLSLIEALSHGVPAIAYDINYGPKDVLKDGKNGYLVTDGAVNQLVRALTRTLESPQRQQRLSKGAYRSSEQYSDEQVWKQWQPVVQ | 0.197 | | 24 | In | 0.663 | In | -0.37 | S |
| >674e0fc079ebb8ace30de53e865d7c47ef89197b |  | |  |  |  |  |  |  |
| MSLSNKSYSVQGQSVMMISPSSESHQQVVAVGQPLAVQPQGTVMLTSKNIQCMRTLLNLAHCHGAVLGTSWQLVLATLQHLVWILGLKPSSGGALKPGRAVEGPSTVLTTAVMTDLPVISNILSRLFESSQYLDDVSLHHLINALCSLSLEAMDMAYGNNKEPSLFAVAKLLETGLVNMHRIEILWRPLTGHLLEVCQHPNSRMREWGAEALTSLIKAGLTFNHDPPLSQNQRLQLLLLNPLKEMSNINHPDIRLKQLECVLQILQSQGDSLGPGWPLVLGVMGAIRNDQGESLIRTAFQCLQLVVTDFLPTMPCTCLQIVVDVAGSFGLHNQELNISLTSIGLLWNISDYFFQRGETIEKELNKEEAAQQKEGHHHHHH | 0.697 | | 41 | S | 0.581 | In | 0.76 | In |
| >fbc6a49853283ae9e629e33cde0b6de008807eb6 |  | |  |  |  |  |  |  |
| MSSESGKPIAKPIRKPGYTNPALKALGIPALRLPSRNWMIFWSVLTVSIGGIAYDKYKQRQILSHATDLVKPLAEESMEVDKVPRKITVFIAPPPNDYLESSLKVWRRYVKPVLYYAGLDYELVQEDRQGIIRTNVANRIRELRKEILASTDGQPVKEPNQTVAKPSGSSTSKISSLLPFNKIIQDPAEEDDSFDPEIGKKFKENFDWRNVIGIFYTMPKPKHIISEDALTKDPILSGGVICLGRGAYKEYIAGIHEGLLGPIEKTEKTGSTEPKMTGVVEANQIESKVSESGATELVDAEKETALEEAKVQDDLKVDEENSSEDSQKFLKPFISSDQYPDLQIASELQTPNGEFIRNPNTNIPLLINQPLLVIPIPNLIGFTTIPRRIHRFYQKRFYVEDVCSSVVNCVRQTRIRPFDIAKDIDLAKDEEKDWPQNWVKQGKEKNSEWTQELVCDPRITKHMFVYEKPPKEEPESDI | 0.583 | | 94 | In | 0.942 | In | 0.71 | In |
| >f513698a3f45ab89355dc4f5f2469da682045896 |  | |  |  |  |  |  |  |
| MARIIYFCKEKDYSMTGEEELDLSKLEYNVRKLMELVEKQQNEISSLRAELAAKNEKIVQQDLALGIAETKNKTLLTSRVIVANEDEARQSKQRLESLIREIDRCIALLQTE | 0.564 | | 98 | In | 0.646 | S | -1.46 | S |
| >42ba3d246967459220ea859e4cb475d352cfa638 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSTFIYITGIKWLRPSLIIPAEGDPTVLLADGEEDGFREMAWIKNVLSYSDGSQLMGEVVKYLKDLNAKKVGMEYAVERDAFIFFYDLFKKLNRNVEVVDITDILDDIKVIKDRYEIDYIMKAGEVTRKVAAALADLVREGMKETDIAAEAYYMLYKAGSEEPLIYINAGPNPRVHSEPLSTVTIRNNSIVTITLDADFSRYYVNKSLTIPIGNPGDTALNAIKCMDEAQKVAVENTRPGTKFIEVMEKLDETYKKYDMLRYRVIGYAHSVGLKPEEMPITTIVPKDRFVEVKPYMVLALGHAPLMIPGIGSVKIEETYVVDPSGNLIRCT | 0.409 | | 81 | In | 0.554 | S | -0.4 | S |
| >f95d21b9023aaefe892ec0028759cb74390e2dd8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLTPSRFGEAMAPYHTVRPYQPGAFPGGDALPAPHFKVMETMNETEKLSLVIATGQTVIRMYHALDFGDYSVASRCFTPDGIWERAGSALHGQQQILASLNKRSATLFTRHYVTNFVVFEHSGPMAKAAFSLSVYRSDKNAPPTLPVGPAIPAMLADAECELVCNDRGDWLINRLAPVITFAA | 0.107 | | 53 | In | 0.593 | In | 0.89 | In |
| >ca54b8754853b57258f56aa005eab7859bf109e0 |  | |  |  |  |  |  |  |
| MSSLSRFLLRGNFSFSTHTNRRFFSAVTAAAATPSPPKPSLITLVNDERDPKFITEKFKKACQAEWFRKNIAVYERTVRRLAAAKKFEWVEEILEEQNKYPNMSKEGFVARIINLYGRVGMFENAQKVFDEMPERNCKRTALSFNALLNACVNSKKFDLVEGIFKELPGKLSIEPDVASYNTLIKGLCGKGSFTEAVALIDEIENKGLKPDHITFNILLHESYTKGKFEEGEQIWARMVEKNVKRDIRSYNARLLGLAMENKSEEMVSLFDKLKGNELKPDVFTFTAMIKGFVSEGKLDEAITWYKEIEKNGCRPLKFVFNSLLPAICKAGDLESAYELCKEIFAKRLLVDEAVLQEVVDALVKGSKQDEAEEIVELAKTNDYLQCKLRLFPKE | 0.752 | | 93 | S | 0.812 | In | 0.64 | In |
| >7b0b390f1e9371a38b1640bef5b87adc6529c44e |  | |  |  |  |  |  |  |
| GPGSMPSFQMHPGFAGQSIRTNPWKPTQFIISTSQNFGIVGSGKAYVVEAAPGFQAGSPVSLVGCWGTSDGVFDACFSEVDQNIVVTACGDGVKVYNLAMSLNRDGVIPLVHNAEHQAEVSCVTWNSAHRDTFYSASWDTTIKMYSAVKPEVSMVTMQEHFKEVYEVASTAHSPSSILSCSGDGSWKLWDNRSPQRSVLTQMAHQNQIVLSIDFCKSDPNIFASGGVDRTVRVWDARRPNQPLASFPGHDQACRRVRFSTHNPSMLASSGYDMRVCVWDLSKPQQPLTARYQHHREFVAGLEWSQAAPNALASASYDGSAFFWSVGQAATPSLPTQQLPPAVPPPRVPRPRTKVLAGLPQPSMPMPMAVTSPPRSPR | 0.596 | | 65 | In | 0.98 | In | 2.43 | In |
| >8c3a89803ddd2a68756a676f23e8a26f59242929 |  | |  |  |  |  |  |  |
| GAELECGSNDRFHIQVENLSHMGISKSRMAGVKIECEVIYKEDSEDEAVVRIVNAERPLGTNFGWLNNDLLAPLAHRGLTAEIQLSFNSELLDKIDLQIFHRGEGRYFSQDDTLGYLQCFFPSKI | 0.664 | | 59 | In | 0.735 | S | -0.91 | S |
| >bb8c45932e7fabe0345e0341cbd4ef1f850cf4b7 |  | |  |  |  |  |  |  |
| MQIITNQFQKELKKHGSDHFPFLVSYQRLSEYDSNSFLWHCHPEIEITYIKKGSMHYRVNNRSFHLKEGDIIFCNSNALHSGEMEDQEDCSYIPITFDSKLIYGFFQSTICTKYVDPVIQNLAVCAMHIDYSENWHTIFRDHMLKVISLDKEKPDFYELDISIHMQTMWKLLAEHFPLQAVSPASDLTEYERIRKILSYIEQNYMNRITLTDISENIHLCESECTRLFKRHMNTTLFAFLKEYRIERSLEYLNTKESISNIAEKTGFSDSNYYTKVFSKIKGCSPREYRKNLLKQ | 0.146 | | 43 | In | 0.888 | In | 0.04 | In |
| >0a4959254827ccf1c25afcc0e0ee0c35f659aed6 |  | |  |  |  |  |  |  |
| MLSTLLLVCLSAFIAIVQCQNAYGNIYGYDTSNTGNSNNGPFLVQNPNYQFLNDQLANEYSQTYLEELRNYEQQTNPSSSGGVITSSSSVPANGYYTGPALSNDQQNSVNYQQIVQRNPSAYSNTGSSSSNIYGYNYNSGSSGSQATGSNSYSNNAQYSAPTNPQPYIYPFGQFAPAGSSSSNPVLRDQNSNIYTSTMSPTSSGTNNIGTGNAYTGRTYTLFDQPQNSQTGYVSASDLKTTRLRDQPPPANLNLRGTGPLPGPMLTSANANSQLFRDAGSNDIYYGNANTNNYNNNNNYNNNGQQTYRFSSRFFDVAGNNTEMYYPYRTSTNWQNNQLGVSNSGAPGSGVQFDQSLSSTTMSPTARCALSDPYWCQEYVQIYLSSRQQYQGISTQQSCPSLIASLTESYNGCCTAVRAAGCSM | 0.488 | | 65 | In | 0.973 | In | 3.58 | In |
| >49812d9c112e5c7023a95a88ed6818342284a9af |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMISVCFTRPIFLSTLQLSLLLKLMNPALTKIGDQMSNLTGVRAIMKDIIETLKSGGGQDLINLSAGNPLILPEVEQLWRDCTAELLASQEYGEVVCRYGSSQGYAPLIEAVVKDFNRRYGLNLTDRNVLITPGSQTLYFYAANVFGGYTGNGDLKQIVLPLSPDYTGYGGICLVPEALVAYKPSLDIDAAAHSFKYRPDFSQVSISESTGCVIFSRPCNPTGNVLTDDEVRKIAALAAPYNVPVLIDSAYAPPFPALNFTDMSLIFGENILHCTSLSKAGLPGERIGIAIGNERLIQVLESFQTNASLHSSRYGQAIAARAINSGALAQIAEQVIRPFYQNKFAIVENALEAAMPKELPWFLHRGEGAIFSWLWLQDLPITDWELYQELKKVGVIVVPGSTFFPGLKEEWAHKHQCVRISLTGSDTEIALGMQRLAKAVEQVYQRTPVSA | 0.309 | | 28 | In | 0.539 | S | 0.73 | In |
| >83cffb11567bbf1139eced8daafa90d8dee9e364 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSSKKLSLEQIRKDLREFSRYEAVIYGSYVTGEYREGSDIDVAVITRVKDRKRNFEIQKELWKAKPIYDVRVFELLPLKVKASVMENYIVLFGDELEISEYFYHWRKMWEDVRHRISYHSSYREKMEAIERRKRLLEILKDGGSVFP | 0.166 | | 94 | S | 0.585 | S | 0.57 | In |
| >d40dc6e039636bc5df5c794f3c050edb61e6fb0b |  | |  |  |  |  |  |  |
| MSVEQFINDQLHSIVGISDRSICQYVHALAKKAKSAPDLVEKLRDAGDFPISPAIQSFADQLMSRMPRQATSARQRGPTTAELAEQELNRLNRAVGVLEDYSASSTKTKNVRKRKESSSEDDEAPIKASKPGKSVKPSKSDDSESDIEAMEAKLDADIAERDALAARINKKEKDKTRNVMEKKRDDNKDKEGSSMDKLREESRRQYLKKRKVDKLEELEAIVHDDQTLFAREKLTKREKADMEYRKKVLEYTKAHGKAGDVMKMKRYHLPDASTKQIPSQYVEDDEEDFRPGGDGAKWEEEQLMASMLHLGAKDAKRKEQEFELLLDEKVDFIQALQMPGTNEEVVETEAEKKKMSIEETRKSLPVYAFRDAFIEAVKEHQVLIIEGETGSGKTTQLPQYLYEAGFCEGGKRIGCTQPRRVAAMSVAARVADEVGCKLGTQVGYSIRFEDCTSEKTVLKYMTDGMLLREFLNEPDLASYSVMMIDEAHERTLHTDILFGLVKDIARFRKDLKLLISSATLDAEKFSSFFDDAPIFRIPGRRFPVDIYYTQAPEADYVDAAIVTIMQIHLTQPLPGDILVFLTGQEEIETVQEALMERSKALGSKIKELIPLPVYANLPSDLQAKIFEPTPKDARKVVLATNIAETSVTIDGINYVIDPGFSKQNSFDARSGVEHLHVVTISKAAANQRAGRAGRTGPGKCFRLYTAWAYKHELEEQPIPEIQRTNLGNVVLMLKSLGIHDLVHFDFLDPPPQETLVIALEQLYALGALNHRGELTKLGRRMAEFPCDPCMSKMIIASEKYECSEEIVTIAAMLSCNAAVFYRPKAQVIHADSARKGFWSPAGDHITLMNVYNKWQESSFSQRWCVENYVQHRTMKRARDVRDQLVGLLERVEIETKSSTDTIKIRKAITAGYFYNVSKLDNTGHYKTVKHKHTTHPHPNSCLFEETPRWVVYFELVFTSKEFMREMSEIESGWLLEVAPHYYKGRELEDATNKKMPKNKGKSGKDLER | 0.532 | | 88 | In | 0.893 | In | -0.04 | S |
| >54702a2ab2d8ef363544d3da96f25f836970b170 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHKVNLISMDGGGIRGLVIIQTLIAIEERLGDDIFKYFDWSAGTSTGSLIMAGLATGKSLREMQQTYLLLKDRVFDGIMPPYDTVQLEKFIQDQFGTGTVWEIPYPRLMISAVNSEKLPVRLEMARNYKPAKDVAPETPKEMPLWMALRRSTAAPVLFKPSEDRYIDGGIISNNPALDLMSEVHAYNRELQLSGRKSDAVQMNVLVSFGTGQIPSTVIETLSIDSNSPLQSIKTIKNLAAMFIDQATASEGAPVARSRQWADSLEIPFFRFSAPLSKNIFLSSTSDLDVCTMMWDSFIYCRKHRDYIDELVKVLKHDTDHPHVKTPFTDL | 0.216 | | 35 | In | 0.953 | In | 0.46 | In |
| >4ecc65cfa4dc7b799bbb49832460c89335127a80 |  | |  |  |  |  |  |  |
| LININELVKSLNSLYDYGEIKNNTDLQYLIDQNFIRLIEDRLVITKKWIRFSGKVNREDFITSLLCFYPPLLHKLLKKAYEEACIIGQRGDGKALYEFIDSIPDFAETILNIKDKDIEETEEIKSFYQAVFNGYPQYPSILTKLKIMQLAEDTEDVELSPMGNNPNEIWVQGRRITSSVNLSKLKDKNKYTFTPYEYKDFPVEEKVAEVLSYPWKTFLTILSMVALEYQTAGFEGLSIRPTDHTNYYTTQPLDFYIFNTKGREIRVGRLNDFVYEFCIENDIYLFPDKVPEVDKVIFDMLDEHIIDFKDGEYVLNEEFKDLIYSKDIIIKNRSRKFKSTLKDYVEKLRNTL | 0.554 | | 71 | In | 0.937 | In | -0.75 | S |
| >64d42caefe8c9acece819b310251372f78eecbaa |  | |  |  |  |  |  |  |
| MTTIWTPEGFDEWQRHFPATAFVRPPAALDWTELFLQRWRTPRLGLPKDTLVVLVAGLYSEFILYCNRACARSLKSEGYEVLRMPVRSSRGIIAQGEHIATVLGSRLKPGQRFVVLAHSKGSLDTLAALTQPPALLDACDGIALVQPPVGPSPIIDDVLGYRVPDAGLGYRMDRFRQAMVTRALLAEGTRDISSQRDPHVASMLSALPDTLHCVHVVSWSAVRRSRFDTHHQRLNAVRPGHAHDGQFYMQDLSLPGLPQICLPDVDHGQPILGGAGFDPARFWRTLLEVLHQTRPGRTGYTR | 0.5 | | 23 | In | 0.66 | In | 1.32 | In |
| >49509fa2b549904358fdd6deafec6f92386c76c2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRIDNVAVVGADGRMGQLFCARARAAGMGVVALDRPLEPEAVRQAVHGVQMVLLCVPAAVLDRVAGLMSGILSGNQILADITSVKVLPMQQMRRQYSGPVVGTHPLFGPAPAQGETRVAVVPDSGHAAGEAACAAVEDFFVRLGCEPFRTTAQEHDRAAACIQNLNFITSVAYFATLAHDDAITPFLTPSFRRRLDAARKMLTEDAELFEGLFEANPYSQDAVRAFRAILNHACAGDVNLLVDRAGWWWRSSDNRGGAPS | 0.116 | | 25 | In | 0.917 | In | 0.25 | In |
| >8be77cb49badbb413289826373e5413fda205406 |  | |  |  |  |  |  |  |
| MIIYLSIWLIIGMKELIAFIHDLYKDRTEKSVKFESKGRVIVSPLMSKDDAQELFKSLKEILPEEARLKVRKSKQEPDQFRVVLFNPEKFFSFYAEHAAELLNRFKPLPTSSSGEEYCKWKYNPLSHLIEYTVPFSILDSDTKAKVTDTHEEAIQSKVNQYNEKLRSIYPNLKIIGTNSVEDSSPDKFFLGSFNYNDYKIIKNLNNPASLRQLAIGFFKEHPGHYTEEVAKKIPGDMKDEFTDIEPSSTKPSSTGS | 0.486 | | 94 | In | 0.81 | In | 1.02 | In |
| >3cc49bcc2029718d12e75f32ce67439b76cf63be |  | |  |  |  |  |  |  |
| MNDIKQLLWNGELNVLVSIDPSFLMKGSPREIAVLRIRVPRETYLVNYMPLIWNKIKSFLSFDPLTDSEKYFWFEHNKTPIPWNYPVGVLFDCLAGKSATFTTSFENQVKDVLTFLRIHLVMGDSLPPTIIPIASSKTQAEKFWFHQWKQVCFILNGSSKAIMSLSVNEARKFWGSVITRNFQDFIEISNKISSSRPRHIPLIIQTSRTSGTFRISQPTISMTGVNPTLKDIEGDILDVKEGINGNDVMVICQGIEIPWHMLLYDLYSKLRSFDGFLYITLVPIKGGDKASSEL | 0.491 | | 19 | In | 0.963 | In | 1.69 | In |
| >6155e9c2744a520fc5e1e7bc2fe1072b04d91467 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHFKIYQAFAKHRARQIYRQKVIRKHIESTILHEISHVLPTSDEFAKEEEEEEDSESSGQVENGLGNGNDAIIEEDECEDEDSDEKRDDHTSMTTVTATVTGPTEAPYMKREAKISKSVPIEKESAIQKREAKPMRSVMAISYEKVKRHKNRKERIYRKSLQRKPKAISAAKERRGVKV | 0.242 | | 98 | In | 0.669 | In | 0.41 | In |
| >ed1333f06f34c3b5296ff96466c35fe5ac894d2c |  | |  |  |  |  |  |  |
| MPSNLNIVKVTKPQEENKNFLHKNTNEPNEMEQSQTQEAVTENFTENSNLSANEHAARRGRLNLKTVDHIETYPIVQETEEIAKKIALTRIILAQTKPRIDKVVVSRPVQAVAPVVNFFDKMANSTLSTVERVVPSLKTKTYKRLGEEIALPYTLSKKYGKQLRDTTARNGDNYVYQPVHGRLMKFRKYYNEKFIDTKGKPLIRGQLDPVLLPVNNTFEKVTVKYLPKGKKVPNDSFSCEFNRGLALEYNFMTRAVSAVSHQVVGIAKLPIAYGYHTNSVYNKNLDKQADLKMKNVLRGTWDTITDLEREIWASVTDRSLFRFFGNKSEGGDLPHLVQ | 0.493 | | 69 | S | 0.974 | In | 1.42 | In |
| >327167aa7d2a408bc49b994f4cafd452c35a0553 |  | |  |  |  |  |  |  |
| MAANTTTSINTIDTQTSLGDSKAIISNQEGIHEKLDEVVKRHLTHASQKPYQAHTKEAFAQMDALVNAFLVVNPEGEIILDACCGVGQSTRILAKQNPQALVIGVDKSDHRINRNVEGFDVDDGFSAENYHLVRADLNDFYRLVKAADWPVSKHYILYPNPWPKSKHLQRRWHGSAVFPQMTSIGQQLILRSNWRIYLAEFQQAAKLVDLRGQIDALPVVDSSLALTPFEAKYQASDQICWQLILGRVELY | 0.448 | | 47 | In | 0.693 | In | 0.12 | In |
| >c7d404366a40732e75c89d1981edc31ac17fee34 |  | |  |  |  |  |  |  |
| MSCPVIELTQQLIRRPSLSPDDAGCQALMIERLRKIGFTIEHMDFGDTQNFWAWRGRGETLAFAGHTDVVPAGDVDRWINPPFEPTIRDGMLFGRGAADMKGSLAAMVVAAERFVAQHPHHRGRLAFLITSDEEASAKNGTVKVVEALMARNERLDYCLVGEPSSTEIVGDVVKNGRRGSLTCNLTIHGVQGHVAYPHLADNPVHRAAPFLNELVAIEWDRGNDFFPATSMQVANIQAGTGSNNVIPGELFVQFNFRFSTELTDEMIKERVHALLEKHQLRYTVDWWLSGQPFLTARGKLVDAVVNAIEHYNEIKPQLLTTGGTSDGRFIARMGAQVVELGPVNATIHKINECVNAADLQLLARMYQRIMEQLVA | 0.244 | | 24 | In | 0.569 | In | 0.02 | In |
| >61ca59f67930d88532d4f835724e70e4e8b9dda3 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMYNATYINETHPMLIRLQLMQYRHHLELTWLEDCLALKETLNFSKASASRYVTQPAFSRRIQSLEEWVGTPLFERSKRGVTLTKAGEVFTDQLPELIHSLYTLKSDTLEAAGNKQPSLVFSATHALSFSFVPHLLKQSDKIAKFGSFRLLSDSLNACEKMMRQGDSQFLLCHHHPHMHLNLNKNNFMSIRLGFDTLIPFSKPDSETLKPLWNINNKIQFPYLSFSSQSGLGRIIANTASINRITHNINVAFVADLAATLLAMVRSGDGVAWIPQSLARQDIEAKTIVTAAEKESNLWVPIEIRLYRPAKRMPPDAEELWEIFVEEQI | 0.125 | | 34 | In | 0.78 | In | 0.86 | In |
| >8e25f7516091627d2c519aaa82d7af0ae3c49899 |  | |  |  |  |  |  |  |
| MIQEAEEEDKKEKLDDILFSAATPGSWISSTSTCNEPLPVAPKEIPGENYIETLAALYKNSVERRRMFYCNGSLREMLGGTGLKMRPTRFDERYYKEKMRFELVLYVEMMNSMSVFRQMDLDTKETLVKGCAVSLAMLEKYYISVKYDGLRTQKLIAPDGSYTDLSDHGAQFDDEFTQITESVMDKETCLKLLYDPLRSCLNELGSALEHSRMTDTEFCALFAILLFNTAADNLSDASRNAVVMARNRVMKDWFEFYAKQGIDPHEAGLLVGNTLLLLTAVRNAMAVHRENFHVIRVFNVMEYDKLIDDLAFT | 0.336 | | 55 | In | 0.978 | In | -1.06 | S |
| >75ceca5ff3e00f00aa09f69893be2c1f06d3bc41 |  | |  |  |  |  |  |  |
| MAERNNAALQEAITIVNGLAKTDGCILATYTSDTPDKKKDREAILTVLNQREFVCAGVLGGALHEKMYKDFEYSMLLRDWDNLSSFIFEIRRIRSAPTAFQEFEAVARKWKKKPLKTK | 0.506 | | 73 | In | 0.647 | In | 0.53 | In |
| >2864268ed84a1ea0c3fc3ecaf8ac3d1e1029381e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIKELNMNKAVKKMLATHEHLVHSEGVTVVSHMQREKAEWVQHTVMIEDCDVPFKFRRVKKYRNLQGQKINVIYYPETETVAGFEIEIMQVVRIKRF | 0.1 | | 100 | In | 0.653 | S | -0.07 | S |
| >13ce7a4e7d49770ab84e5c5d5a6e1a5912e75b05 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNVDTNILPIINLENVSQILLANIPQDDLLGQLIILKGQFILVEREGKESKYKFLSPEAVEKAFTSKTAASGWLSSNTIWWGKNPEGEAIIQFYSPQKYQIQIMGQEPEVITVPMPAFLFAGCSSRYYLWAIKGRVFKPDTQLYKPPLPNVWEDSSICFGGNSLSMCSAATISQVWDLFWKSPFNKDLSQGKSKTHPDNICNQLIKLHESKAKSYPSSDLVPVHSWKVTTPEDIINHLFS | 0.414 | | 86 | S | 0.571 | In | 1.51 | In |
| >141b6e73b4c29ea6b83dd29b4563c1af260f2aae |  | |  |  |  |  |  |  |
| MAHHHHHHMTIISSENAKEYSSHVEPFGDGHKITLKSPNLRVSLLTQGATVFSVQYRVPQLAGGDVADKDGWVELVLGLDVPEEFAKDKLYIGSTCGRYSGRIENGEFELNGKSFKLLQNDGENTLHGGPEGFSSRPWKYILLEGEEEIGISFHLISPHLDQGFPGELFVTATYVILKNEPATLKWNLQAVLAASTPAQSTVINLCNHIYWNLNGVPSRPRRLPEPITNHHMQLHSGYVAEMQELIPTGSMKSVEGTPHDYKKLRAIREGMEATQAEGRDPPGYDDPVALDKWDSKLHEAGRLFSPKTGITLQLDTTSPAVVVYTANYLPENASGEAGERFQRHSGICLETQYFPNSPHIPSFPSTVVSKGEKYDETTVCHFKYTPKS | 0.697 | | 89 | S | 0.742 | In | 0.7 | In |
| >ff37cb15ea70d139ccb21971e68495bf45a45cc5 |  | |  |  |  |  |  |  |
| MRSKIYFTSDAHLGSRHHADPMTVERRLAAWLERIRHEAKAIYFMGDMFDYWFEYRYVVPRGFTRFLGKVAELSDEGVEIHFFAGNHDVWLTDYLTKELGAHVHMHGITVELSGKLFRLAHGDEEYRSVKRSYDCMYRLFRNPLARLLYAAVHPRWTVGLAYGISLKSRRSGEKRKTLGNIPHAYSNDYFDIENEWLIRFAKEHSARHPEVDFYIFGHRHLLVDMALRDEKRVLILGDWIRYNSYAVWDGTTLVLESMEDME | 0.176 | | 20 | In | 0.927 | In | -0.18 | S |
| >47f8c5f49bcbe20f8a396d3cf9945660e51597d8 |  | |  |  |  |  |  |  |
| MSVADSYFDELFRNNDDPWAFKQRWYERRKRALTLAALPRERYRAIFEPGCANGELSADLAERCDMLVCCDTSTQAVELARQRLADVPHARVVQARLPHQWPAGQFDLIVFSELGYYLDAADLHRLIDCALAALSPDGQLLACHWRPDIEGCPLNAQAVHAILAERLSMHRLFSHHEQDFLLDLWSRDGTSVAEQEFSDDRHIDPGAQ | 0.275 | | 59 | S | 0.522 | S | -1.85 | S |
| >334701496c0c4c20a04d2507cfa7c03b37a49b72 |  | |  |  |  |  |  |  |
| MTALKPALPDYLGNIRIILTRTSHPANIGSAARAMKTMGLHRLTIVTPNLMATPMTENPPVFNPDDVQSFALPEESFILASGAADVLHNAEIVATLDEALADTTIACALTSRRREITAPLQTPRDLVPELLQAANRGEKVALVFGNETFGLSIEEVRACNRLMTINGNPDYFSLNLAQAVQVVCYEIFSQTDSPMTHLQQEDHAATHEQIKGMLAHMESVMDDIGFFNRRNGERLMRRMQSLFGRANTQTEDIDILRGFFNTVSHRIHKKD | 0.216 | | 21 | In | 0.827 | In | -0.17 | S |
| >222cf1f831f03aa35747298927150991cac4b59e |  | |  |  |  |  |  |  |
| LTFNLDFGSTHMIFFAGSGGYKTTSTVVPTCLTYTGPIVCLDPSTEIAPMVKFARKKMGNRNVIILDPNSLLTKNFNVLDWLLDENIPRTRREANIVSFSKLLLSEKKSENSSAEYFSTQAHNLLTALLAHVIFSDKYEDSERNLKTLRAILSQSETAVVNQLRMIQETTPSPFIREMVGIFTEMADQTFSGVYTTASKDTQWLSLSNYADLVCGNDFASSDIANGKTDVFLNLPASILNSYPAIGRVIIGAFLNAMVTADGNYKKRVLFVLDEVDLLGYMNILEEARDRGRKYGTSLMLFYQSSGQLVNHFGEAGARSWFESCSFVSYAAIKDLQTAKDISERCGQMTIEVTGTSKSRGLSLTKGSQNINYQQRALILPHEIIQEMRQDEQIILMQGHPPLRCGRAIYFRRKEMLAATEKNRFAPQAKKS | 0.316 | | 15 | In | 0.952 | In | 1.22 | In |
| >be5f70da607e94eb2c76322fb56ca95524bdd988 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQFTSLEICAGAGGQALGLERAGFSHVALIEIEPSACQTLRLNRPDWNVIEGDVRLFQGEGYDGIDLLAGGVPCPPFSKAGKQLGKDDERDLFPEAIRLAKETDPKAIMLENVRGLLDPKFENYRNHITEQFAKLGYLGQWKLLYAADYGVSQLRPRVLFVALKNEYTNFFKWPEPNSEQPKTVGELLFDLMSENNWQGAHNWRLKAAQIAPTLVGGSKKHGGADLGPTRSKRAWAELGVDGSGLWDSAPPEDFSGMPRLTVRMTARIQGFPDDWQFFGKKTPMYRQIGNAFPPPVAEAVGRQIIKALKKEN | 0.398 | | 61 | In | 0.517 | S | 1.26 | In |
| >da90be26bdd44c65f2b59515218f10b4e4b9f215 |  | |  |  |  |  |  |  |
| MGLNKETLGTTLCFMVEQLLLPLWNNLATVDDETLPLMSTALLIARDEYPDLDANLYDTLVQSYVEYLRSEVEEISLWPLKMAAVNRYLFQKLGYSGNHDEYYDPRNSYLNQVFERRLGNPISLAVIQIEVARRLGIPLDGVSFPGHFLVRLPVDDGILVMDPFNGGRPLDAEELRERARPHLGGEAPDDRALAQILNPAPHRTILVRILRNLHSVYANTDRWDRAARCADRILKLVPNQPEALRDRGLAYLQLGHRSGALNDLKRYLQLYPSTHNVDMVRGHLVDLSNERIQTHLEHHHHHH | 0.616 | | 41 | In | 0.718 | In | -0.12 | S |
| >5515df20978129148744725032897035336c2109 |  | |  |  |  |  |  |  |
| MKYRLAAFDFDGTLADTLPWFESVMDGVADKYGFRKASAADKAQLRHRSTREIMAFLEVPVWKLPAIMAHVRQLMREIDPAVRMFAGVPAALAQLKAAGLRLAVCSSNSLDNVRRVLGPQTGALIDDYECGADLFGKPAKLARLMARHGVERTRCILIGDEMRDIDAARKAGVMAGSVAWGYNHVDALRARAPDEIFEQVADLAAVLAPGFPSFPPTP | 0.32 | | 45 | In | 0.803 | In | 0.43 | In |
| >af8ddd17d8d6e4c4489bdcbbf1d09f8c5f784562 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNSAWSYVRGFERVSLCDWPGCNTSVIFMGGCNMRCPTCHNYTIAWQPEQVPAISRQSILTYLKNRAKWIDGVVVTGGEATLVPQLETVLHDIKALGMRIKLDTNGMRPDVVESLMQQQLVDLFAVDVKGPWELYPRLTGGTHSPEEARTGLSRIFALAQTAPEAFLFRLTQIPVLTPDHIDTARQYLPQGFTLKLQDYVAPRRSHAETDSETRRMSGDVVTRPHSAGHTESAQSQRH | 0.44 | | 36 | In | 0.61 | S | 0.74 | In |
| >f2539e237199c31855c95461f7c1baadb9308624 |  | |  |  |  |  |  |  |
| MGNEQVKNVGEEKKLCLCMIVKNESRIMERCLNATKSIVDFVSICDTGSTDHTPEIIENWCKENEIPGTVHHEPFKNFGYNRSLAVSLAQKTYPEADYLLILDADMILEVDPEFDKTSLTEDHYLTLQYDIHIKYWLTRLLKASLPWKSVGVTHEYWDIDRSKVGANYNTRVARLETLVVNDPGDGGSKADKFERDERLLLQGINDPETTPDLHIRYLFYLAQTYFHLSQFEDSIKWYKKRVEAGGWVEEVFYSLLRIGFCYEQLANRSANKQHEVTEADEKENAKKQEEQYTALAVLYFQKAWEYRPTRAEPLYQLARMYRLKSQNNIALMYALQGKEVPFPKDDLLFVDYHVYDYLFDYEISINAFYIPHKKHLGAASQKYLESKKEELPLHIANMVENNAKFY | 0.444 | | 78 | In | 0.512 | S | -0.92 | S |
| >cdd1dda91c79e51e07c6d02bb10a14074d278e1c |  | |  |  |  |  |  |  |
| MPSEAKYTWDQELNEINIQFPVTGDADSSAIKIRIVGKKICVKNQGEIVIDGELLHEVDVSSLWWVINGDVVDVNVTKKR | 0.733 | | 96 | S | 0.671 | S | -0.8 | S |
| >be4d1dc885f8fe26000b3332e513f9b1c5569447 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSSFQFEQIGVIRSPYKEKFAVPRQPGLVKSANGELHLIAPYNQADAVRGLEAFSHLWILFVFHQTMEGGWRPTVRPPRLGGNARMGVFATRSTFRPNPIGMSLVELKEVVCHKDSVILKLGSLDLVDGTPVVDIKPYLPFAESLPDASASYAQSAPAAEMAVSFTAEVEKQLLTLEKRYPQLTLFIREVLAQDPRPAYRKGEETGKTYAVWLHDFNVRWRVTDAGFEVFALEPR | 0.23 | | 51 | In | 0.64 | S | 0.9 | In |
| >b3d932098f0e12eae0258d622d34fdcd777075fe |  | |  |  |  |  |  |  |
| MAHHHHHHMENIKNEQVMKFLELWNIFKKPQYLIDETIEILKKNDEEELKCLFLKRLNFGTAGLRGKMCVGFNAMNVVTIMQTTQGLCSYLINTYGLNLCKNRGIIFGFDGRYHSESFAHVAASVCLSKGFRVYLFAQTVATPILCYSNLKKNCLCGVMVTASHNPKLDNGYKVYASNGAQIIPPVDKNISNCILNNLEPWKDAYEYLNENFYLKDTSLVEDIYFEMYDSFMDDLKHEFNFNCYRNSRTKLAIVYSPMHGIGRKFVQGIMHVVGFNNLLTVPQQALPDSDFSTVSFPNPEEKGALDMSMELADKVCSPIVVANDPDADRFACAEKFNNKWKVFSGDELGIIFAYHLMKQYEKKNIDKSKHVFLCTVVCSRMLKKLCEKYGYKYDETLTGFKWIINKAIEYNEQNYTILYCYEEALGHALTRHVKDKCGISALGYWIEIAVYLYENNLTFHQYLETIREEIGYFVNNNGYYIVLDSNDIVSIFNEFRSNGLYKTNLGSYKIIHIRDLTTGYDSTTADKKSLIAPTPDSQNITIHFENTAILTIRASGTEPKVKWYAEISRDTYEQAKKEIDQLIDEVMPMFMQPNKYNVKKS | 0.288 | | 54 | In | 0.975 | In | 0.49 | In |
| >0b436af2c89df877b079a83d17af3fa5f915913e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIDGGEAIRKLALNVARYTGLAPLARPFVGGIGAILMLHRVTATPEKPDSVNRHLNIAPSFLDAVIADMKADGYVFVSMDEAVERIKAGGKGGRFATITADDAYRDNMTEALPVLEKHGAPITIYVAPGLIDGTADLWWDVAEDIVNASDHLTLSTSNGPAVIDCATPARKSQAITRLHAYLANEVREEDLRTVLRDLASSNGVDADASRLQTLMNWDEIRTVAAHPLVTVGAHTINHSNLKRLSEADARREIGTVKDMLRAELGREPLHFAYPYGYASAVGCREVGFARDAGYVSAVTTRHGVLRAEHAGYLHALPRISINGRYQSLAHVRTMLSGVTTPLANAGKMVVTI | 0.161 | | 32 | In | 0.86 | In | 0.34 | In |
| >70f7ef3f22273e84833a68d26f3ec74a1d30675f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVPHLLIVDGQQRLTALYAVMRGEPVIDQEFQRRYIRIAFSPLEDRFEVTNTAIERDPSWIADISILWQPEFDQYAFVSEFLDRQTRRHELDADTRKRIPAAIQRVVNLSNYPMTALEISLNANEEQVSEIFVRINSRGRTLNQADFVLTLMSVFWDEGRKELEDFARKTRQQPADRQPSPYNLYFRPAPDQLLRVDVALAFRRARLEHVYSILRGKDLQSGEFSVERRDEQFTVLKEAQAYVLDLQHWHEFIKVIKRAGFIHPKMITSETALTYTYAFWLIGKRDFQLDLSTLRNLMARWFFMSSLTGRNTGSPESRMSLDLALLRDYTNPDDFIRALEQEIHAVFTPDYWKVTLPNNLATASARSTGQSAYIAALCILDGPVLYSRMKIRDLLDPNTQARKEALERHHLFPRKYLARQKITEQRDVNQVANYALVEWHDNIDISDQPPTVYAPQYEKQFSPAELKEMYRFHALPEQWYTMDYFTFLEQRRQLMADIIRQGFMHLSQR | 0.226 | | 39 | In | 0.525 | In | -0.27 | S |
| >8079953a8c1aa6c0aef35ace953e3bb2f1bc50f8 |  | |  |  |  |  |  |  |
| MSNYTENNFYPLDEEQRQQPYASHPYGYPYPQPYYPAAYPYYYYPQTAAAPTMTPATTAPTFGLQAPTFTAPTPTTAAGPATTGPSIPGMLPMEESYIENILRLNKGKIATVYATFENNREWNAKVFRGVIEAAGRDHVILSDPQTGTRYLIPMIYVDYVTFEGEIAYEYPFAGASATPLASYSPR | 0.262 | | 90 | In | 0.767 | In | 0.68 | In |
| >92610dbc64651804c749b32fc78697da9d17db4b |  | |  |  |  |  |  |  |
| MALNEGQLVTYALDEIIGTVQNLTPMASKVTKYPPPAESMQRSSNTVWMPVEQEAPTQTGWDLTGNATGILELSVKCNMGDPDNDFFELRADDLRDERSYRRRIQASAKKLANNIESAIAKQATEMGSLVVHDTRAIGPSTGLPGWDFVSDAERLMFSRELNRDMGISYFLNPDDYRKAGRNLVDGDIFGRVPEEAYRNGTIQRQIAGFDEILRSPKLPAVTKSTATGVTVSGAQKFKPQAYTLDTDGNKENVDNRVATVTVSSTTGFKRGDKISFIGVKFLSQMAKNVLTDDATFSITRVIDGTHIEITPKPIALDDASLTKEEKAYANVNTSLADTTPVNVLNVATTTANVFWADDSIRLLSQPIPVTHELFAGMKTSSFSIPGIGVNGIFATQGDINTLSGKCRIAVWYSACAVRPEAIGVGLPNQTA | 0.347 | | 35 | In | 0.873 | In | 0.75 | In |
| >d9fc0619406dab69a0d7d40b7c8398410ba94274 |  | |  |  |  |  |  |  |
| MTKQYLRELEQQLEQGRQALAQQWVAEQRYETLITQAEATIEKRSRQAKLALERNEEAVAKLALRDKLLYEKKLKEYKQQYDAIKAKTAEVANRLNQLCERYDELSAKQLELAARVNATQALKQIDSALASFSADEALRGFARMEERVMALEAEAAAARFGTNAALSPVPFDEEVERELAKWKEAQANNA | 0.475 | | 75 | S | 0.737 | S | -1.45 | S |
| >9690e6c4f969f37deb996c5cb92e9c0f6fab71fa |  | |  |  |  |  |  |  |
| MAHHHHHHMRGADQVLVINRSLSAPCATLRHLSTLSERCAVEDTGVVLALRNPRLPLPRAVSLFPNFITSSSSFSCRHAAKVGKAIVATEPVDACEGGSPADATALRDRLGAAELQISLLDNASKISLERYTVLDEANTLLRQQLQEARSEIKRLRVENQQLRELLEKRELV | 0.329 | | 54 | In | 0.776 | In | 0.8 | In |
| >feca622c45d7ce1ab2c85ed2a1f7f425ece8bf16 |  | |  |  |  |  |  |  |
| MKPLMTHLPPHSQPWPINPKPRFITAWPEKYNGVGKQICKLHRALGHEPMPWQVLFHTIVGARNADGRPRWPFIIVSVPRQSGKTDGVGAQAIHRTLTSPNGKIWYTAQTGQKARDRWLEMVASVNRSPFAAFARTLKTNGSEALKFEAINSQFRPHPPTADSLHSEQSDLNFIDEAWVFDDATAADLMQAITPTQATRPNRQTVIVSTMGDAGSTWFHGLVEKGRAGDPGIFLLEFGIADDVDPDDLEAVAAAHPAFGYTQDMEALRAARASLGAAGFARGYGNRATGARNQLIPSRAYEQAKTLENMPADAPAILAAAIDFERTETAIAAATWADGVPMIEIIECRPGTSWAVDRLEALEALPLIEGLIIDDHGPSSTLIGELTRRGVAVRVPATREVSTAAADLMDRITHVDAQGHPAPRVLIRKSAALDQAVSVVDRRPLGESWTWSRKGSKGSIAALEAATLALHGLVDKPAADAVPFFR | 0.499 | | 28 | In | 0.65 | In | 0.66 | In |
| >4080382f8f65b0b80635b12532518ebaecf33bff |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNTELLTSIIIPCYNAEKYIHKCLESCLNQRLDYNTFEIIAIDDGSEDNTLNILHEFAHNNPQLHMQILTQKNAGQSRARNHGLEYAHGKYILYLDSDDFFVDNTISEILYTAIDNQLDMLWFDHQHVDENYNLLPLPQADCKKHVPTDIMSGIDFIKKAFNHSGMVWQFIFRKDFLIKNNILFFDGIIMQDIVYTLQCLYKCKRVQYYPICAYNYLIRSNSVTRDMLKKRKRSLDGMKVAALLNDTFATSKDNDLRLWINDFMNGIVQFNLRRLVKNNDNTGYELCISELKRYNLLPLPMSFICRQIFLTKILNFSPILYKQVVKLLH | 0.198 | | 35 | In | 0.995 | In | 0.34 | In |
| >dd974d9cb7e2bc5986d6411172ac2f603b5b0cad |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQTKTEKIFSSKTLSYFLRLTDTMSYTQSAQLLGITQPALTQQIKKLEHAVGAPLFYTLGKKLRLTDAGYTMLNATHEINRILNHATDEIQQATSSGRGDISVGILASLETRIFEDFIANYYNNVPEINVTVHMLTRFEIWEGLESNRLDFAITYLPDANIRSWKPYRARKIGTERLVFVHHDERLSKARGVSLKRAAAFDWVSYPEGYYLDDLITEVFKDAMVTKPKSVAYFTTPAQILSFSNSTGIATALPESFVVAHQDEATDAYITKFDPKISYEIGFVYRKDKDKIPRMNAFLSAFFEYMDGEKYIDKVRNLTTKKDD | 0.147 | | 31 | In | 0.894 | In | 0.17 | In |
| >61cc4b6845ce2a988b7a6657fc50e35930891b3d |  | |  |  |  |  |  |  |
| KTHTMQISRGNGQHDIKSIDISLESEDKQLSTVTVSAARPLVKMEIDRLSYNMKDDPAAKTNNLLEMLRNVPLVTVDGQGNIQVKGSSNFKIHLNGRPSTMVSSNPKEVFRSIPAHTIKRVEVITDPGVKYDAEGTSAILDIVTEEGKKLEGYSGSITASVSNNPTANGSIFLTAKSGKVGLTTNYNYYGGKNKGSRYFTERTTSMLQTIEEGKGQETFGGHFGNALLSFEIDSLNLFTVGGNVRLWEMTTDRNSVEKSFAGSNLMSYIDRKLKTQMDAGSYELNADYQHSTRLPGELLTVSYRFTHNPNNSETFIDQWKRDPLNTANTIQYAGQHSKSDAGMDEHTAQVDYTRPLGQAHSLEAGLKYIYRHATSDPLYEIRPSEDAPWQPGSLYAQNPSNGKFRHDQYIGAAYAGYNYRKDQYSLQTGLRVESSRLKALFPENAAADFSHNSFDWVPQLTLGYTPSPMKQLKLAYNFRIQRPAIGQLNPYRLQTNDYQVQYGNPDLKSEKRHHVGLSYNQYGAKVMLTASLDYDFCNNAIQNYTFSDPANPNLFHQTYGNIGREHSFSLNTYAMYTPAVWVRIMLNGNIDRTFQKSEALGIDVNSWSGMVYSGLMFTLPKDWTVNLFGGYYHGGRSYQTKYDGNVFNNIGIAKQLFDKKLRVSLSANNIHAKYSTWKSRTIGNGFTIYSENAGIQRSVSLSLTYSFGKMNTQVRKVERTIVNDDLKQTSSQGQQGGGQGNPTGN | 0.462 | | 16 | In | 0.59 | In | 2.25 | In |
| >2a9ff13698c294f6ce0d30cfe58b4202f46813ef |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMMKAEKTSIYPIIKNNLNKISIVEYKKGQRFVASDKDLQEVFFIIEGVALVECTTRGGNKFLVDIVPENEFIGKISYIYEHNLKCDIFAKTNIKLFRFEKNVFEEFYLKPDFIALFHRKCTRRIYELYKTRMVRELFSCTEVIAYCISNKQENNVCNIKAIRNFSEIYSISRKSRYHSLLKLTEKEIVKKMGNTYEILNYDELHKLAFEVKEFLEDE | 0.144 | | 93 | In | 0.571 | S | 0.54 | In |
| >e66e8f6124862f8a4ab93da60e30630a762eb3e2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMALQEEFIDVNGTRVFQRKMVTDSNRRSIALFHGYSFTSMDWDKADLFNNYSKIGYNVYAPDYPGFGRSASSEKYGIDRGDLKHAAEFIRDYLKANGVARSVIMGASMGGGMVIMTTLQYPDIVDGIIAVAPAWVESLKGDMKKIRQKTLLVWGSKDHVVPIALSKEYASIISGSRLEIVEGSGHPVYIEKPEEFVRITVDFLRNL | 0.144 | | 31 | In | 0.743 | S | 1.01 | In |
| >44fd34de2b5281a29fde20264d2bcdd4a30fe5d7 |  | |  |  |  |  |  |  |
| MADKSAFVPVDAIGNHKNTDLDVDIDDELFGKKPPKTAEAPKPAPPPPAPAPAAAPSTGKYQYKKSSTYQKSYAK | 0.452 | | 100 | In | 0.781 | In | 2.72 | In |
| >059c8057bdb0c8721a3376fecf1614bc67f191b8 |  | |  |  |  |  |  |  |
| MAHHHHHHMALTTSSDVAAPLISLAVYCPLLCADKEKHGADNILFYFPSDTHLNLQMNQVGFCIAISSLAPLFGVHCSRRQTIRKQRSSVCLMSPAEDLWVSAHVRGGNEAALTTHHLLQLSCALFELLYSADTVLRLTLPDMEKGRKEGPPAGTGSSTPSTPTTDKAVSSDTAARPALRSFFTRCATFISSVLAAQCKARDGATERMGRSGAAMSAQDWAHHLSAEAAFGFPLRFVSDRELPSLQLGRVEEVVRHILWRPVDGCTAGPDGDAPSSLGRDSVHCCVFDLPSLHVVMADSRLPRVVVQSLKYYLVLYAPIACTSFRCHVPPGGLCEAAVWLDGNVVVVLVDMHEDETASVGVRAVSPSLMEHARIISSAVRQLLSKPAAGAISVEAKDAYWLSTRDVPTHQLYYKLTLKPPIAASSGLVAHWRLRGTVVEGTPFRQVVPGLVEYLRVLVHSTKLCLPSSTSTSVLEYWTRWNSFWVYLRFAGPTVTALAWQHQQHATSVRQLAYEAQHLLLVAP | 0.321 | | 35 | In | 0.989 | In | 0.97 | In |
| >f53c5789646bd5a0127ea9b4cccc7260d11292c4 |  | |  |  |  |  |  |  |
| MKLFLIAFGISSVFAHSFSGSSDSDEGHSHRGRGHRTPRPSGPKSCESGWTAFDRPHGRWCIKPFYGNTNHITAQAACQKHGANLTGFQTANEVTQTVHLLRTLINQKSPGANTITWIGGIRKAKCYRPGICTPR | 0.823 | | 49 | S | 0.686 | In | 1.45 | In |
| >b07cb0d11630e5a762e199eec011b607bea20c77 |  | |  |  |  |  |  |  |
| MPESRTVALVTLGCARNEVDSEELAGRLEADGWKLVDDAEEADVAVVNTCGFVEAAKKDSVDALLEANDLKGHGRTQAVVAVGCMAERYGKELADALPEADGVLGFDDYADISDRLQTILNGGIHAAHTPRDRRKLLPISPAERQEAGAAVALPGHGPTDLPEGVAPASGPRAPLRRRLDGSPVASVKLASGCDRRCSFCAIPSFRGSFISRRPSDVLNETRWLAEQGVKEIMLVSENNTSYGKDLGDIRLLESLLPNLAEVDGIERVRVSYLQPAEMRPGLIDVLTSTEKVAPYFDLSFQHSAPNVLRAMRRFGDTDRFLELLDTIRSKAPEAGVRSNFIVGFPGESEADLAELERFLNHARLDAIGVFGYSDEEGTEAATYGDKLDEDVVAERLARVSRLAEELVSQRADERVGATVRVLVESVDPAGEGDGVRGRAEHQAPETDGQVLLTSGAGLSVGRMVDAKVVGTEGVDLVAEPLLGSPEWSEEAGRLEHHHHHH | 0.608 | | 88 | S | 0.642 | S | -0.97 | S |
| >7015ff94052680bc69016ae69b82675e3cfa14a7 |  | |  |  |  |  |  |  |
| MAPARGDAMAQVIFNEEWMVEYGLMLRTGLGARQIEAYRQNCWVEGFHFKRVSPLGKPDSKRGIIWYNYPKINQFIKDSLEHHHHHH | 0.762 | | 15 | In | 0.512 | In | 1.28 | In |
| >6d98fd2b6fed9cd43f4e08edbf5b63c77961fd6f |  | |  |  |  |  |  |  |
| MTNRIELSGVVAKALVRSQSPSGVKHCHFWLEHRSTMVEADLPRQVFCRLPVVVSGARSEALTQNLVQGSSILVSGFLAYQTSRNGVGKLVLHADKISQI | 0.177 | | 34 | S | 0.5 | S | 1.56 | In |
| >9ff10cd3e7ab4f2342aa5de4fd21afc08ff26d30 |  | |  |  |  |  |  |  |
| MAHHHHHHMQVAGALKQKGNACFNNGDIDGAAAAYQEAIGLLLQEKKGKNMPEEKNGVIHDIVGGAGELLAVLYSNLSNLYNIKGDYEVSWKAAQQATIYDPTFAKGWLRYIQGRRMDGYPFEAFVTLLRRLRPLLRNSPPSTLPKHIAGDVALVEAPLYEDLGLSRVLPHIELDEYEGGVGIVARRAVKPNEIILVEKRFETFFAEMDLGAQSDLTTMGIVTHFANKMYPHQCSHSETWVRFNKQFKGCWPRRPEEISADVRSELSHALRSQLPEMGDDDFESLFTLAVICRYNCFHSGFFRACALANHSCHANAAMKYNPEDETVTLIAVRPISAGDFVNVKYLSDAHFLMGVGKRREYLRSWLFWCKCDRCSMDSENSATQEQIKCPHCLRYTHLPFTNENTETKDHDPLLLPEKPCLHCGASVKWSEDSRAMVSQLVVSFNNITGHVTYDRLMTWLLEGMRKISVIRVHPDHWLYRILFYFFCVPMTSIVNEGFEQFMAMGWHSSLVEMLMRDVGIRRLYMEAIHARTNEGGCSKEKCGHVSEGCSEIIGCGGAAINSALRSTLVRGNGGW | 0.391 | | 36 | In | 0.981 | In | 0.58 | In |
| >674464db21c6ce5b567a8ff7057b6e39510a8660 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHIPSFAHGHGHGHGHDHHHHETTPPLASKSVEASGAGGCCMADTVDEIKKKEDDLVVDETTALTKTTKRAISEEKEGDGHCQTHCPLTVHERRGSNECTANATHKKIVFKNRRYGRRISRNQNRFSSYGSTLNGDLLFGENDDEEGSECTFAPVAFAEPERCETNCEAIDEDPPILMKSRPHAHSHG | 0.346 | | 100 | S | 0.676 | In | -0.2 | S |
| >9c6c3a2db2a4a816866e6a595c3048381a4b45a8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMFLTFSGRELSREARLDDTTTVAIIGAGPAGLAVAACLRQAGVDFIIIEKEQQAAPAWRRHYERVHLHTTKRYSSLPFVPFPKHYPRYVPRALFVDYLDAYAQRFDLRPQFGETVKAVTQDGRGWRVDAASGPLRAKDVVIASGYNAEPLRPAFAGIDTFTGKTLHSADYRNAKPFAGQSVLVIGMGNTGAEIALDLAENGAQPTISVRGGVHIVPRELFGVPIQMVGMAARLGPQRLNDALFPVILDLVLGRLDKYGLKRPGQGLLEQIAVASRIPVIDVGTIGKIREGAIKVAPDITEISQRGARFADGKHGEFDAIIFATGYRPGYARFLEPGIQPDRSGVTPKASDLGLYLIGFHNAVTGLLREIGIEAQAIADDIRHRLNRKKAAEILPV | 0.254 | | 32 | In | 0.581 | S | 1.28 | In |
| >47f55f362e41352e3189724392b10377beeb7b09 |  | |  |  |  |  |  |  |
| RREQQADRIHTDYKRIYQYNVESKNNWSGFICCYPAGTLIREQVPDVEEICRISEYNDKEYIFIGADKQNGLIASHLSVESNFFTFFDGYKLLEGDPKTVLSEQNSAVISSALAARIFGNVSPIGQEISFFDFSKNKQTFRITGIMEPMPDNCHIRPAELLFYQEPKENNYNNGNYALYLKAREGADLTAQLPAVQKAVQGKDVIFAFDEKAEVKLHPLEKCYPEPLFPNEYAMMVQKGNPARTR | 0.338 | | 72 | S | 0.638 | S | 0.39 | In |
| >5de67daa8f096cbf6c5726e673f328882d2f0ba1 |  | |  |  |  |  |  |  |
| MSGWHTLLQDASYKGVGFDIEVVDESNGKALAEHARPFVQGIDLEDMGMTGRQVQINAVFWGKGYAGRLKKLLDALEQPGGGVLVHPVWGRMHNMIAASWSYRHEADYVDYAGIDITFREAAEAQEIFVFENAFLVELEALIANIDTYREAAIGFVDAVLAVDAGVSALWGSALGIWSAASGTFGAVRRLFDLDKIAFPDRGGYSAAAFKNGSAKLFADISVMVDTGIRREAGLADNAMHHAGWSPRQRFDGAAAVADRAAAIPDNLLTGRFSDGLQNRLNRLTAKQVQPVAQAVRLLSTSSLLSVATALIEAHGEEMTAPDLIEVNRAMRRRMQAEIAALRAVQTAAAESGGLTANAVYTEAYQTAESLRAAAGRLNALVAAVINQKPPLIVRQAPIDGTIHQIAHEFYGDIARAAELVRLNPHIHHPAFIKRGTLVNSYAK | 0.241 | | 23 | In | 0.799 | In | -0.03 | S |
| >9c29d57e1217c4b64b64c98b5823e73e551bdfea |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQQPPIYLDINNNKSIINALKAGEEYVFDAVYRYYFRRLCAFCSQYVSEQEEIEEIVQDTMMWLWENRCSLMEELTLKTLLFTIVKNKALNRISHFEIRRKVHQEITEKFEKEFDNPDFYLENELFRLYENALKQLPKDYREAYEMNRNHRMTHKEIAEKLNVSPQTVNYRIGQALKLLRIALKDYLPLFILYFGLDIFKQS | 0.129 | | 80 | In | 0.598 | S | -0.57 | S |
| >b5b1a099b80fe8c8b0382c68dd071e1bfc7d8e9d |  | |  |  |  |  |  |  |
| MVAWRAAGLNYVRYSQIAAEITRKCTKQVGGKAAVKKPEATLKITTWENGKQQK | 0.555 | | 59 | S | 0.574 | In | -2.92 | S |
| >51775fd596a0d5d210949e53eb7376c6e6ca0687 |  | |  |  |  |  |  |  |
| MQFFGGSEISPSPPVPTASGNNAHMMYVFNRNGVCLLYKEWNRPLHTLNPQQDHKLMFGLLFSLKSLTAKMDPVNADKGNLGVPQLPGQGCSFHSFRTNTYKLSFMETPSGIKIILVTHPKTGDLRESLKYIYSLYVEYVVKNPIYSPGSPIKSELFNTALDQYVRSIS | 0.307 | | 71 | In | 0.645 | In | 3.21 | In |
| >5c487abb2fd678dc1cad38f586dd540503e1c6ab |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPDEYLGCDDVGTPRGPTVYMAPKLFNPAGGSFFMLNNVIRELKRFGEETKIINKRIILMFSGGKDSSLALYLLKEAGYNVSALTFFHKWSWPEVLRWGMKFTKKLGVTHYLIDITEGLKREAIGRKGPICIHCKKVMLWNAKWFAVNNGFELIAKGDNANDKIIGTLLDQCPGDIRICEIPKIGIPIFRPLIKYKAREIEMLTNEAGIKPYRMYEHGRRKQWREGCPLQYIDEDTRITEELMDLAFRVNYKVSKIARERKVRISVRVPSFEIMCWNCDNETLKEVKKVINKETL | 0.219 | | 57 | In | 0.939 | In | 1.04 | In |
| >c7d33239f4437f2d9a5d2f96e6deab9b736f0053 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTVKEKKIIDQYVPIVVESTGRYERAYDIFSRLLKDRIVFLGSPIDDYVANLVIAQLLFLEAEDPDKDVYLYINSPGGSVTAGLAIYDTMQYIKCDVSTICVGQAASMAAVLLAAGAKGKRYALPNARIMIHQPLGGAEGPAKDVEIITRELLRIKDLLNRILSKHTGQPIEKIEKDTDRDFFMSAEEAKEYGIVDKVVSTRE | 0.15 | | 85 | S | 0.697 | S | -0.49 | S |
| >5f9f87b66574883187b9093e572c5a65058a1e78 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVKIAVLSDVHGNATALEAVLADAQKQHVDEYWTVGDMTVRGPESERCLTLLDRVHPTAYVLGNHEENYQKVMAANPNTFTKPKQIMATVLTAFDRRQLSSTHFERLLNLPMTVIKHVGPLTIRLQHVLPTVASGHALAPTASQANFDQAAEGDVDIVIYAHTHQPIMRYATTGQLILNAGTVGLPTAINPHLRQPRANYLLLTIDETGLQHVDYRAVDFDWQRAITIAQNTHLPYFEFYEQTLQTNTYQYAPSAVAAYNTQHDMAREARKILLENRH | 0.198 | | 55 | In | 0.863 | In | -0.55 | S |
| >eb712399ea96b127490c4b9c9ad4887aeefb1a39 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLDKTHRPTWTRMEDASKEDFLAVMAYDDHFNAGLVDRLIAALISLDEDWTPYPINRYQHSLQAASRAYEDGAEEEIVVAALIHDIGDILSPYNHGEVAAAIAKPYMSEKACWILKHHCVFQGYYYNHHLGGDRLARERYKDSPYYDACVYFCHNYDQNAFDPAYATKPLEFFEPMLRRVFSNAGGHIELNETRDA | 0.122 | | 68 | In | 0.556 | S | -1.77 | S |
| >cc34d7a3f9f847bd02bff3d24d91dd28bf5f5bad |  | |  |  |  |  |  |  |
| MILDLENLSETESPEDLVEEMLGELDAIEVIFQELVQSKKEHGIDETIFCFYEGKDDFKYYPTRIRTWLELHSNNKSLFSKGCGNRDKVIKVYNKIKFDFEEIDDVSLYFIDRDFNKENNLGKRIYVTPCYAIENLYAKETVLEKFLESHIYINSKSIGKDLKDYCIIREYYVQNLFEKLTQIALINAWYSIQINKKIEDLKNGGEISLDLKKLKSLSDIKKSTSVEEFSEIDIEMLREITDNPYEVTEEEIELELRHIKGDILSNSRGKYIEEILIELYKKIIDETNLPTEFEIEKRSISLPIGKKNFKIHLMPFADTPECFRTYLKERIK | 0.531 | | 97 | S | 0.846 | In | -1.46 | S |
| >095f84262cfbb51d6fd77986381024218e308f2f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAKTIYIAGLGLIGASMALGIKRDHPDYEILGYNRSQASRDIALKEGMIDRATDDFASFAPLADVIILSLPIKQTIAFIKELANLDLREGVIISDAGSTKSTIVDAAEQYLAGKSVRFVGAHPMAGSHKTGAASADVNLFENAYYIFTPSSLTSQDTLKEMKDLLSGLHARFIEIDAKEHDRVTSQISHFPHILASSLMEQTAVYAQEHEMARRFAAGGFRDMTRIAESEPGMWTSILLSNSEIILDRIEDFKERLEAIGQAISKGDEEQIWNFFNQAREQRQTMEIHKRGGVDSSYDLYVDVPDEEDVILRILELLRGTSLVNIHINEENREDIHGILQISFKNAQDLERAEHLITENTDYTVVIK | 0.204 | | 49 | In | 0.543 | S | -1.3 | S |
| >de66756703c7f122ee3cad00af8e1c670d8aa00c |  | |  |  |  |  |  |  |
| MMVTVVSNYCQLSQTQLSQTFAEKFTVTEELLQSLKKTALSGDEESIELLHNIALGYDEFGKKAEDILYHIVRNPTNDTLSIIKLIKNACLKLYNLAHTATKHPLKSHDSDNLLFKKLFSPSKLMAIIGEDIPLISEKQSLSKVLLNDKNNELSDGTNFWDKNRQLTTDEIACYLKKIAANAKNTQVNYPTDFYLPNSNSTYLEVALNDNIKSDPSWPKEVQLFPINTGGHWILVSLQKIVNEKNNTQQIKCIIFNSLRALGHEKENSLKRIINSFNSFNCDPTRETPNNKNITDHLTEPEIIFLHADLQQYLSQSCGAFVCMAAQEVIEQMESNSDSAPYTLLKNYADRFKKYSAEEQYEIDFQHRLENRNCYLDKYGDANINHYYRNLEIKNSHPKNRASSKRVS | 0.397 | | 79 | S | 0.964 | In | 0.83 | In |
| >2d2605243209a5dd6e8eb8352f52448309407a62 |  | |  |  |  |  |  |  |
| MAHHHHHHMNKQLLQTLPLAKGKDIHNRIAKLALYKECIALASSVSDPLVRQHTIVEVREKWLLSRGDGGQTLQLQLASALDRIAYGRMCVSKQRLRLIPNASEKYDWGVVNPLEHHAQRIQRREERESPDAFPHGAGRRDFVPMTNWGYGNMDPDAVMRHKELTDRQHFMGPHWRNKPKPVLLEDLSFEEQMYVQFQGKPKMKKTPKKHY | 0.22 | | 61 | In | 0.735 | In | 0.63 | In |
| >b508a6e9a61ba23d2ac97ca0056c70c4899e0161 |  | |  |  |  |  |  |  |
| MALGPEGAADLQRQLTEWTVFTAHCWQARSPQTEVLIATSGGTSEAWQQWLGAVEVQPQAEGDLGDRLHQAFQDSWQVGCDRTVIIGSDCPQIEPHHLDEAFAVLQQADVVIGPASDGGYWLIGLSQPQPQLFQNIDWGSDRVLVQTLEAAQVADLQVAQLESLSDLDRPEDLNLWQPQPQLSVIITTLNEAANLPQTLALIGDAPVETLVVDGGSQDATVAIAQAWGAKVIHSPAGRGRQFNQGAAAAHGNILLFLHGDTRLPPRFWEHVLQTLQPPQVVAGAFQLQIDSPDWRLRWIERGVRWRSHWLQQPYGDQALFLSRDRWRAIGGFSTGPLLEDYRFVRQLRRQGTIAIASAAVMTSARRWQRRGVLQTTLLNQLILLAHHCGVSDQQLARWYRLEHHHHHH | 0.34 | | 12 | S | 0.522 | In | -0.51 | S |
| >37bf6b7bd1ea0c8e91498e35891459d16cabbb41 |  | |  |  |  |  |  |  |
| MRILVSRTDKIGDLVLSIPSFFMLKKMYPNAELVVIVRKYNVDIVKNLPYIDRIVIIDEYSKAELLEKIAYFKADVFIALYNDSYIASLARASKAKIKIGPISKLSSFFTYNKGVLQKRSLSLKNEGQYNLDLVTKLDRKRFAILYELNTKLEHHHHHH | 0.381 | | 80 | S | 0.586 | S | 0.03 | In |
| >da0a3719519d4c81998883faf9aaf23018117990 |  | |  |  |  |  |  |  |
| TSQARDRREMLLRARPLSRQTREWVAQGMPPTADAGVPIRLHERAATAVPDARAEERHTPEEPADAAAPQHLGARAHANGIVQQLVDAHADLAGMLSMIQDGRRG | 0.467 | | 25 | In | 0.789 | In | 0.2 | In |
| >59de49cd61b0cdc0d9868e33f471ba67655720cc |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIDVTIDHTHWVASDGYTTTMHLLEATAPKGVVIVFHGMMEHGARYQEFAEFLYAHHYHTIIPDLRCFGARAQQLESLGHLEPNHGFAQLIQDAEELVYDIKDRYPDLPIFVFGHSFGSLISRRLGQTLGHELAGIIASGPPTDSGLLGTVSQKIVGRLIEQTSSQHPAEGISKLIFGRYNLRFFPALSSNAWLSSDPQSVLRYDEDPLSGQTVTLGFFNELLSATKSVNSLAYLYQHPRHLPLLLIAGEDDPVAFDGKGIHALFDAYNRVRVEGVQLTVYRGLRHELFHEFERIRVFADIAGWLNKQIGSHPLSSLRKQGHQ | 0.217 | | 24 | In | 0.612 | In | 0.06 | In |
| >83a42cb2ab1f72df06380dc7d1bc861555a96161 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVIDARIIVVDEKRLFREGLCRMLYQLSWVSSVVGYNTVEEGIKAIHQYEANLYIMNPFVGGEAQYAFVKEIRAHKPGIKIVLLTDFDDADSILDATQQHINGYFSKSMAFDKFEVYLHEVMEGKYRLSEALGSLLFERLVKKNSADDLTAREKIIYQMMRKGYTNKEIAKQLSISTNTARNHVSSIMHKLNISSRYRIPESQED | 0.159 | | 56 | In | 0.599 | S | 0.26 | In |
| >4162eda887e41729ffe8d192d77d9426c6f122bf |  | |  |  |  |  |  |  |
| MIPPRIVPWRDFAELEELKLWFYPKSKGTIEDKRQRAVQRVQSYRLKGSQYLPHVVDSTAQITCAVLLDEKEACLGVHQDSIPIRLSYVMALIRFVNGLLDPTQQSQFAIPLHTLAAKIGLPSWFVDLRHWGTHERDLPGLEMLRWAANEALSWLYDHYWNDEELEDDRDDDDDDDDTGYGYRRNDKLEKYMESLTKTLDKWKRLRNEFLEYKWVWENANDSLITSSNFSGDNLVNYDAEKRKSSHASSSETMIRENLRQWQELWKLSIYHNVVLEKFFNNYDPLLLKVLMLNLNNFDWKVIEWVARNYRTQQDDSNITTILKRKFNAWKELQKRLLDVIINNLNNKNFKNKWQNWEKLIDENASYLILYFCQSMLAKLETEKITGNSWRNKKRRKQIDSTVEIEAKLKENIDNLSLRFNEGEIKLYDFIPAEKDSVPLKKEVSPALKADTNDILGDLASLKQRMSSFGTVGKKNKQEENRATPVKNWSRVQNWKPKPFGVL | 0.627 | | 60 | In | 0.983 | In | 0.63 | In |
| >af431870ac4dcf70a6f336edcab4fce14855875e |  | |  |  |  |  |  |  |
| NRIVIMATETVECAYSDISGVHVRSTSQTASTQLTLKTLEEKTPLVRCHRQYLVSIKAISEIKLLENGLAEIITKTGFEIPVSRRYLKVLKEMLGISH | 0.81 | | 86 | In | 0.547 | S | 0.95 | In |
| >aaaec4f1ed0cc9761d42cd549bcf15313b688020 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIVTLSITFTKLKHTNSTNTFKYKLIMNTSDLNLFIRIVETGSITETANQVNLTPAAVSSALKRLEKQLDVQLLIRTTRQLRITPQGEQFLFHCRNALASLEQGRISAHQTQGKVSGKLRLSVSSDLGRNTLLPWIEELLEEHPLLSIDLTVGDSVSDFYLDQVDMALRFGKPEDSSMVSFQIATMSRITCASPAYISKYGNPETPEDLRNHNCLLHRRAGRLFDHWEYTDSLGTYKIKVNSNRISNDTDIVRRWAVSGKGIVYRSLIDVYSDLNSGQLVQLLSGYDSSSVELHLICPNREQVSPAVIAFRELLRSKISKVLS | 0.167 | | 23 | In | 0.896 | In | 1.39 | In |
| >8368b9fa0cd95dbb7e7c71855e5b7a8b159b0230 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPTYDVSSIGFYVCDILGRPVTRIPDGGRADYIQEIRMTVAGTAGATAADCAILGLKTLAVTTVGEDEMGDFMVAKLTRFGVDCAMVARDGSVQTSATILPVRPNGERPALHVPGTAATFRIPEGRLDAALDARIVHVGGTGLLKSFDGAPTVEALRRAKELGRITTFDLIQATPETFELVRPCLPYIDYFVPSIEEASEMAGTTDPAEVARFFKGLGVKNAILTMGGEGVYVSPEAGEDFRLPAHAIEVVDTTGCGDSFTAGVIVGLARGWDLRDCCRFASAVAARVAMGLGSDGKLVSFEDTIEAMNTLPLRAN | 0.201 | | 46 | In | 0.533 | S | -0.43 | S |
| >cba943121826bbf375f81d32be1aaf3755491ca1 |  | |  |  |  |  |  |  |
| MGHHHHHHGGHMSLTLPDFRLIRLLPLASLVLTACTLPGHKGPGKSPDSPQWRQHQQEVRHLNQYQTRGAFAYISDDQKVYARFFWQQTGQDRYRLLLTNPLGSTELELNAQPGNVQLVDNKGQRYTADDAEEMIGKLTGMPIPLNSLRQWILGLPGDATDYKLDDQYRLSEVNYRQDGKNWKVVYGGYDSKTQPAMPANMELSDGSQRIKLKMDNWIVKEGGS | 0.34 | | 28 | S | 0.616 | S | 1.39 | In |
| >be0f76a7ec110d3ff8dfc16d39d4e737484f0df3 |  | |  |  |  |  |  |  |
| MFRGKGQQQVSSTDNIKAMMTAAIGNKLEKRLPLVSTIFVVGNDEEEFNIERRTLWQDVLPDLQNLAFQSNFDLEFCDVPLENGELTNSVAEHVLQMWKDNPRSWIVLLLGNRYGNVSVPTSLRKEEYESIRSSIFEENGNVRVFEKAYTINRNGAVEEYRLVPSAIKDKKQLAEIIKALQAGAKAAHEEGSINQVHEQRQNRFFSSPLETFVRSILQVSPCRCLFLLRKFDQLVADPNSPNAFLETNDQNSRKIEDLKNEITLKMNDRVMTHVLRPESTDINYFFNSRDGDKYREKIARQFNEKLKNHLADINPPVRPEPPKSPMVLAANEARTHQEFLENQLALGNLKRDYDKRLDELASVKVNRGVFLIQGTDLCGKTQALCRLYHKISDKDAYKVIFFTNLTYSSNFAHEAWRTICLNICSISNIDPKEVLEHFKLGGILKSLEELVQKADKPVCIFIDDVHLLKFGHLLSQIGRRTETAPDNLSLFMTSSNVAPVNAVFAVTQTVNVDVISENEVVGMVQKMAEKVDKKLTNEQISAIRPLMAAKDGILIAKSFTHEILFNGNSSMKGGMDGRMTRIEKEFGKLAVGNAVKFIAASSHGLTRLEIHDAISADREVLEEMNMSIVYSLLTLDGIIEALGPILRKVIIDDRQIIGIAHSGLISWLRNRYLTSSQDIRSAHLQLSDLFADLLIDNEQSPRHEIAYQSFSQGIKRDNGSPNFRRLRLLWYHCLHSGNLDRLKELSLCHFEYVDYVTRYFGISHLLSLYEECATQILHHDLQVISEQVLVPALVTMARDSEQLAAEVIGRLRFTRHENSHFLNSLVDQAMSWVDLYNRQPLLVPLTCWISPPATKVCRSFTLKDWKPGNTVLTLSANHQYILISGNQSDPGVIYAYHIASEQLIGTFKGHTAAVTCLCSSNDSSLFVSTSFDKTVNVWVFSQSTPTMSLTHHTAKVTCAILTSDDQYLITASADSSAKMIKLETGEVMRSFNDHTGSVVSLQLTSNNQFLITGSGDFVVQMWDVTNGKCISRMGGLMAPVSTLAITSNDAFVVVACEDETLKVFSTVGGQELHELMGHEGKVNSLVCAQDDCQLFAATKSKVFCYDIHNGQMIDVLDTAQPFPICSLKISSDNYFLISPCGPKVTIWNVTKRNHDAHDVHADKEGFLTAVALSNDDKYAACGTNNGIVALWDLEVCQCVFTTIQNKGDPITCIRYSVDSQYCISGNQAGCILILDAQNGGVVRELFMHSSEVLSIMSLVHNKMISCDIQGKMVIWELFGDDDTPEMVATGVKPPIFVPPTGRIMVGHCSLSNKEMKIWAFPEEGPPVTRAKLSHSDEITCFATSPKGGNFIATGSRDMSLKIWQIDKGFLTQVLVGHENVVTCCCISFDERLVVSGARDEKIIVWNVQSGDMVCTVNTTAAITSLSMTGDSTVVFSTTEDGWVETWSTTKGRLLSTFNAHRPIKKLINSYESHRMLLLLENCAQLPILCLHNTPAVGVEATRRRSARAQSVSSASNEPVASTSAGEIKKDPILSSNNGGNAQSAPRATAPKPTFDMLERSKSRTSLIEKDRTTTLTQSNAPPPQKSNMCTLL | 0.486 | | 47 | In | 0.993 | In | 0.62 | In |
| >6f3e56636b63780c1c37e631494bdf09823eae45 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVFSFGSTTYAKDPTKETTAYVDVSVLTVWVEPNIARDVDLPSLTNPVDPWKWTKNMTYEEKLWLVGKLETQALYGMKVHILEEQGDWVKIAVVGQPTPREEAGYPGWVPKEQLIQSKKFQQLERRPFATVTAPTAFLYSNQGLTKEFMEVSFNTRLPVLAAFRDRVLVMTPSDGTKWFARTDVEIYQSEDEIPAPTADDLLETAELFLDLPYLWAGVSGFGFDCSGFTHTIYRAHGITIPRDSSVQARYGTYVEREHLQKGDLVFFARNGGTGAVHHVGMYIGDGKMIHSPNSASTVEIVTIDESSYAGSYHSARRYLEE | 0.26 | | 54 | S | 0.514 | S | -0.41 | S |
| >f2f34f4cf039362f3fdc0db09156732cd57f32fe |  | |  |  |  |  |  |  |
| MQRANTVVNRQGVKVDVEFGRLKEYYLSTLAPQKKFVSIRDHAAREKELDALRKKQKISLEQRKDKQDNIKKSQAEYDQMKSLYAAPVDPKQTKVETMEQKEVLEPTAPMEKFVVNTTDDKRALFPASWYQQPISRSQLKKGKMIYWMAKDEEEDMTLDDDPEGKYTVTAEKLIETMTAGGKVKHAGITEPPSNTANTIMSESLASINARYKKSCERNAVFMNTLHGTIEFNKKQVSVDKTLSTSSISQDDATDAPNQIIFAPTITSHVFKGRSLKRQYAVKNKALETFEEDRKDYTREAGEETSGL | 0.522 | | 94 | In | 0.975 | In | 0.6 | In |
| >e99434a4991a23b9c1af219a4188700fb1d3357b |  | |  |  |  |  |  |  |
| MSLSDNYFIYFNDIHIDHEYVYTKSRQKNCHENINPNGLNFTFGQYGCEAPHELVESFFENLKNIAPKPKFIVFGGDSTYTWTYNHTYKTIQEDLSRITTNLKNLYPKVPFILNLGNAEYDPNYGGYNSDIETFMNTSKILGSYLTDQQRETFEKGGYYYYDYPKANLRVISLNSVIYSKRRNLTESDLYGQISWLKNIMNTEYKTLILFHIQPGVNYAEKKNSWYDYHINQISQVFEEKQPDYLLGAHVHLDMLMPFFNSKNLEIIALSNPAVSPKHDNNPSFRLYYMNKGLSDYKQFYADIKDNPSFLNWELEYQFTKLYEQSDLSQKSLKSAVKWISTTSKGMWTFLEHVYSRGFANNAFYQCMLGSADIDHYNSCVSSKPQEGHHHHHH | 0.33 | | 16 | In | 0.82 | In | 1.04 | In |
| >8679085ca20076c47a6c693feaf23ccdb9bc8225 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHANKAAEAEADSLSIEMAPITEVTEVYEGTLPAADGPGIDYVLTLNAATDGVDTTYTLDMTYLDAEGQGKNKTFSSKGKQQTIQKVVNKKPTKAVKLTPNDGEAPMYFVIVNDTTLRLVNDSLQEAVSDLNYDIIKVKK | 0.364 | | 98 | S | 0.778 | S | -0.89 | S |
| >3a0e73bb41374677e1fe81913a6eb9947dc45c37 |  | |  |  |  |  |  |  |
| MDELTAQALKAFTTRYCDAWQEKHGSWPLSEELYGVPSPCIISSTRDAVYWQPQPFEGEENVNAVERAFDIMVQPALHAFYTTQFAGDMPAQFADEKLTLLQTWSQDDFRRVQENLIGHLVTQKRLKLPPTLFIATQENELEVISVCNLSGEVIKETLGTRNRTVLAATLAEFLTQLNPLL | 0.573 | | 48 | S | 0.616 | S | -1.5 | S |
| >c29866cc2ea2580bf7fc6f4c8d7331b59ca8fca3 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMMEMFEVNELILKKAKELGLGDVVVLSYETDRRQVRFANNEVTVAKHWHERKVELFVEWKKRIAGTSITDLSEENIERTLKTLKANLEKMKPKEDYYGIAEGPFEYKDIPETFDKAIIELDDPSEYVETAINAALEEGAKRVAGVLYTDHDKIYLTTSNDVEAFDEGTGIEISVRAFIGDLESGHGTNSVRVLKKFDPESAGRKAGEIAKLARNPEQGPEGRFDVIFDPLAFANLLSYMGWAFSAFAVEAGFSYFANKLDQKVASEIVTIKDVGNLPNGYATRKFDDEGVPTKETILIHKGILKTYLFNTSLAKKYGRETTANAGLIAPRAWNIVLEPGDYTKDELFQEVKKGIYITNVWYTRFQNYMTGDFSTIPRDGIFLIENGELKPIRNIRVSDNMLRILQNVVALSKESYHVHWWEVSRPVTTPYVLVKEVGITRATK | 0.439 | | 72 | In | 0.595 | S | -0.23 | S |
| >5610b0aad03195f4b57b55b0fd0b04bed6c8a8b5 |  | |  |  |  |  |  |  |
| MSTDLVAYHHDKRRPYQQCQRCALVSVPAEFYLSRDEEKAEYDKHENHPQDLGYQQFLDRTLAPLLARFESTALGLDFGCGEGKALSLMAQARGYRVENYDLYYANHPELLTRQYDFITLTEVIEHVSDADALLTQLKGMLKPKGILAVMTKRVLNPTAFSTWHYKNDPTHINFYAEATFQWLAEHYGWRLEVIDKDVVFLYQLEHHHHHH | 0.299 | | 62 | S | 0.67 | S | -1.52 | S |
| >50f9f8af2fee1c9b4383295a1fc0fd2842acf245 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTYEILDHESDIGIMVYGTTYEELFSNAVYAMADLILDVGKLKEKRKMHEIIRGNTPEDIMVNLLSRVLFYVDTYYTLYFRATCKYEDSTLDVYLYGSEIPEEVEYRNVIKAVTYSEIAVKPEDGFARVIFDL | 0.158 | | 83 | S | 0.782 | S | -2.6 | S |
| >646b38b524cd33a3ad9fb0dba72dd4775a24facd |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVNIKDQRARGDLGRRVAYRRAELGLSQEEVAERAGMAAGYIDYLERNPPNLSPGALSRLADALQTTPEALLGMGFDEPEGAHVTRVPKPKLAAIASQECMELIKAGGVGRIAFTMPGEAAPTVLPVNFLVRNETIIFRTSGHGIIAEHASNQYISFEVDRLDGMTNEGWSVLVVGLARPVRDPVELERLRKTAPVQPWAAGDRDLFITIIPKQVTGRRIEHESMP | 0.257 | | 57 | In | 0.766 | S | 0.67 | In |
| >9ea5b086c99ce2e18a6d87c53cb022e457c765e6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIVKVSPRGSMDQLSQLEVDRLKQSAKSPLYQLYRNCSLAVLASGLKSDSSSELFDKYKDFEINILQRERGVKLELINPPEQAFVDGQIIAGIQEHLFSVLRDILYIADKYDNLKHINLTNASHITNVVFDILRNARALPTKNDPNVVVCWGGHSINALEYQYTREVGYQLGLRKLDICTGCGPGAMEGPMKGAAIGHAKQRICNARYIGLTEPSIIAAEPPNQIVNELVILPDIEKRLEAFVRLGHGIVIFPGGAGTAEELLYLLGILLNKANEHIPFPLVLTGPKESADYFIKIDEFVAATLGEEARSKYHIIIDNPDEVARVMREGMEQVKVFRKTNGDAYPYQWSLRIEPEFQLPFVPTHEVMANLHLYFQHNKAELAANLRRAFSGIVAGNVKGETIRLIKRHGPFELRGDPRLMSLMDDLLQAFVRQQRMKLPGSAYEPCYKIVK | 0.581 | | 54 | In | 0.563 | S | 0.8 | In |
| >93ffba958f1096195663485f012a230977b04dee |  | |  |  |  |  |  |  |
| MTAASQAERTVLEEEFNWLLKEEVHAVLKQLQDILKEASRRLSMPSPGLEGQLKQENFILGSSTMDQVKGVLTLQGEALTQADINIKVAKSSQVMHFAFRDDKQWKLQQIQDARNHVNQALQLLSSRDDSYHFKTGAEVNKLMDAIMLQLTRARNRLTTPASMTLPELAASGLMKMFTPPMPGDVMVNFYINLSKLCLTVYQLHVLQPNTTKNFKPAGSSVLHNPGAMFEHNNTKFEVSHVHKVECVVPWLNDTLVFFTISLQLCQQLKDKISVFSSFWNYRPF | 0.52 | | 72 | In | 0.519 | In | 0.82 | In |
| >685671332adce7e0c809bc7b4be89da9e2086bcd |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRVTNKMISDRVLFNIQTSLKRIAKLHDQLSSGYKVRYPSDDAVVAKRASDILTRKRELEQFQRSVDHVQTYVNAYDSALQTVSSITQRLRELLVRAANGTLSKAEREAIAEEIDKIKENLVEVANTRIGNEYIFSGYDVFSQPVENENGIWKISTLPASNKSRSILVLGHSIDYGVTASEVFELDSGKNVFQMLEEVSATLRSNLNETQISERVSNVFLKELSSFEERITKTIGKVGGVSRFIDMVNSRVQDLDFFFTEYLSKERDADITELVTDLAMQQSVLEAALKSASRVLQATLVDFVR | 0.215 | | 60 | In | 0.975 | In | 0.11 | In |
| >53f5ec8f9ce8c81510d392022f7a20ffc6459969 |  | |  |  |  |  |  |  |
| EGLFYMDEFGTMVFYNQGFYEQLGINAGRINLDRWLDLVHPLDRERLSKRVDAHINTDNKRVTTTYRLRKPNGQYVWIEGVAMTKETEHGHYMVGSHRD | 0.679 | | 6 | In | 0.55 | S | 0.07 | In |
| >71088185031832e4fdeb4d6030aea6c3716e5a07 |  | |  |  |  |  |  |  |
| MGHHHHHHSHVEQMVNEGVNADSIKQASEQLNSRWIEFCQLLSERLNWLEYQNNIIAFYNQLQQLEQMTTTAENWLKIQPTTPSEPTAIKSQLKICKDEVNRLSGLQPQIERLKIQSIALKEKGQGPMFLDADFVAFTNHFKQVFSDVQAREKELQTIFDTLPPMRYQETMSAIRTWVQQSETKLSIPQLSVTDYEIM | 0.332 | | 76 | In | 0.583 | S | -0.61 | S |
| >19be4d17a46992f1fe3a90dc6468bd5c2df267c8 |  | |  |  |  |  |  |  |
| MPNHVVQNKTPDLFVAEHLDELTGARHLLSNDLGAASALAWRLRRSDVTLYDTRGELKYGLSYPEHSQRSVPLADIRQWLWRARQDGSIAVLLRINSASDRYQLALLPGDGERYRNGNLVLAILPQVR | 0.141 | | 39 | S | 0.564 | In | 1.36 | In |
| >6b4b316480c9ca9975a67b4beb09ffeb1651f1cd |  | |  |  |  |  |  |  |
| SLALSRFSVRWRLPMTTNAAPTAAPPLGPEEEKLLKRLRRIEGQVRGIQKMVEEGRDCHDILTQFAAVRSALDTAGEGLLEQYALGCRARPGEAVTPSDVVRAVKLLRR | 0.675 | | 71 | S | 0.566 | In | 0.79 | In |
| >7e8c0e7006c576baf6c64e124613e9715926a664 |  | |  |  |  |  |  |  |
| MGHHHHHHSHGNSQRQSEEIEAMAAIYGEEWCVIDENAKIFCIRVTDFMDDPKWTLCLQVMLPSEYPGTAPPSYQLNAPWLKGQERADLSNSLEEIYVHNMGESILYQWVEKIRDALIQKSQITEP | 0.455 | | 83 | S | 0.712 | S | -1.64 | S |
| >1d8cfc5420266c78356218f3b62a324f63b6b23a |  | |  |  |  |  |  |  |
| MGHHHHHHSHMASQQDSGFFEISIKYLLKSWSNTSPVGNGYIKPPVPPASGTHREKGPPTMLPINVDPDSKPGEYVLKSLFVNFTTQAERKIRIIMAEPLEKPLTKSLQRGEDPQFDQ | 0.671 | | 100 | S | 0.593 | In | 2.36 | In |
| >50060ef34048e21ef8fa00e92e686b0fb9cc18bf |  | |  |  |  |  |  |  |
| AIGGSINLVTKNSPYKRTINATAGSGYNWISEKAQLNLGFTYGDRFFNDRLGMLLSASYQNAPSGSYDTEFMWEQNEDGKVYVSDYQMRQYFVTRERQSYSAAFDFDINENHKLTFKGIFNNRNDWENRYRTNIKDLDENGKGTVRIQTKAGTPDNRNARLERQRTMDFALGGEHLWGAIGMDWNASYAKATEERPNERYLDFQLKKQEFDMDLSDERQPLATPGTGATLTLSDKFSLKELTEQQEDIKEEDMKFSANFKASLNNGAKLKFGAKVVRKTKEKEIDFYEYTPKDEDAFMTNSLKNTVDQSTDKFMPSDKYQVGTFASKEYVGGLNLNDASQFDKEQVQAELAENFEARETVSSGYVRFDHKFASDINLMAGLRMEHTSLRYTGRNYDDETDKTTKTGRMTNSYVNFLPSILVKWDVNDDFKIRGSYTQTLSRPKYSALVPSVNINRGDNEIKIGNSDLKPTISYNFDLSADYYFKSVGLVSAGFFYKKIDDFIVDQVLTNYEYQGTEYTRFTQPKNAGNANLWGLEFSYQRDFGFIAPALKYVGFYGTYTYTHSRVEDFNFEGRENESGLSLPGSPEHTANASLYFEKGGLNVRLSYNFASDFIDEMGPSTFYDRYYDAVNYMDVNASYTFGKKVKMTFYAEANNLLNQPLRYYQGTKDRTMQAEYYGVRMNAGLKISF | 0.3 | | 15 | S | 0.504 | S | 0.66 | In |
| >34fb17fcd6b1c4a1d49d2f8740ba4f57044576d8 |  | |  |  |  |  |  |  |
| MKEIVQQMKAELWEIFDHLHHHPEISWEEWQTTEFLRRELEREGHRVRTFADCPGVVAEIGAGPFTVGVRSDMDALWQEVNGVWQPNHACGHDAHMTIVLGVAKLLRRIGYEPPGTLRFLFQPAEEKGTGALKMIEKGAADGLTFLYGVHLRPIQEVKGGYASPAIIHGAAQCIEGRIRGVAAHAARPHLGVNVIEVGSAIVQELGKIHIDPQVPASIKMTKFHAGEKDANTIPDYAEFALDLRAQTNEAMERLVEGLRHVINGVAAIYGADIELVERTRIVAADPDPDAVRLMEEAIITTLGTEKCVPPVVTSGGEDFHFYSFKKPELKTTMLGLGCDLRPGLHHPNMTFRRDDLLSGVEILARVVMNTFATFAPQGENERASVAANH | 0.676 | | 62 | In | 0.51 | In | -0.69 | S |
| >5923a52a24567fc2c3264d067a24be3c92148e94 |  | |  |  |  |  |  |  |
| PRGLDAQGRTQWHWITSAEPTRLPPALSPGEADFNLAEATRYSAAFIEKKPNFRIPARNPRLTVGRLTDFYENPGLPEQVAPRALKLISRADTVASIVEGVTQSLQEHAFDPHLFPLAQHVRHARMAAVSYAFAEWGR | 0.542 | | 32 | S | 0.524 | In | 1.3 | In |
| >957bbfa3335558eeb31fd6da3e9c712c838db86a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVSRRGARLMDNKVEYWFSIADYDFETAKAMLETKRYLYVGFMCHQTIEKALKAIIARDCADGELPPKTHDLTKLSIRAKLIDIMSDEQQDFIEELNPLNIEARYPEYKERIAQTLDSEVGQTLIKRTEGLLCWIKEQL | 0.119 | | 91 | In | 0.746 | S | -1.43 | S |
| >f17ff85ab4857c03cf3e4b6434e29b43900cb291 |  | |  |  |  |  |  |  |
| MNPYKEEIIHAHAAIENWLSKGVGSLEALIARFAADFTMITPGGVCLDYPALGAFFQAQRACRPGLVIVVEHIDLVAEWPEGAALRYRERQQLPGQAETVRWSTVILKRERGRIVWRHLHETTVTA | 0.258 | | 32 | In | 0.727 | S | -0.15 | S |
| >703a851fb8404e541023a816d52c2235710d2996 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSCVYAFGSNGQRQLGLGHDEDMDTPQRSVPGDDGAIVRKIACGGNHSVMLTNDGNLVGCGDNRRGELDSAQALRQVHDWRPVEVPAPVVDVACGWDTTVIVDADGRVWQRGGGCYEFTQQHVPLNSNDERIAVYGCFQNFVVVQGTRVYGWGSNTKCQLQEPKSRSLKEPVLVYDTGSVAVDYVAMGKDFMVIVDEGGRIVHASGRLPTGFELKQQQKRHNLVVLCMWTSIHLWNARLNTVESFGRGTHSQLFPQERLDFPIVGVATGSEHGILTTANQEGKSHCYNVYCWGWGEHGNCGPQKASQPGLQLVGQYSGKPRVFGGCATTWIVL | 0.24 | | 51 | S | 0.889 | In | 1.13 | In |
| >6839c8c470a47d7d276afef5aaac19a74a70b643 |  | |  |  |  |  |  |  |
| MAHHHHHHMENVSKRDILVNYLKLCNKDDMAEAMMKYCDEDRGIVFNRHPARNEKKFGAIYDYSASSQSKISSATSSSHDLKGSIEKGINQSNRSRQSIVQSKCFYKSKSSLESLQIDKHPSSYIPSSRKQKVQDIVVQRNDPISDVLDDMCEIVAPEGKGKFLKFIGENYVYVLLENVRK | 0.506 | | 92 | In | 0.86 | In | 2.14 | In |
| >6fa174dc16a4e5fe04841c66008dd2d7ac37cdbb |  | |  |  |  |  |  |  |
| AHHHHHHGSPSIDEVDEIILRELSKNGRATLTELSRKVGLTPAAIKNRVEKLEKLGVIKGYSAIIDHSFLGEFLTALIEIELADPESDELSKLIRPILKLENIKDVYKKTGEFQLTIRATFRDVDSLNEFLKKIRRDYLKNMARRIKVSIILENFKEGGVTLL | 0.757 | | 83 | S | 0.647 | S | 0.51 | In |
| >820bf4b0da2d03120e2573d72eb4ab7a34e93072 |  | |  |  |  |  |  |  |
| MSGEIERSQEVAVIFAQDTDHKAQYEALAKLCNKYLPQNAMGRVDTAEIIKIIDTVIALETGSMVVSRQFVSLITERLDNQHLESECVKAISEGILAIIKTRTISYEDQVCILRLMLASLYEKEGRIKDAAQALIAINSDTSPKFNGPQAAKEGAKAQLCIRITKLLLDCSEIDEAEQYVNRTSILMVDLGANPDIQIEHKALQARVSDAKRRFVEAAQRYYELSATEQLPNSDKLTALGKAIVCVLLAKPGPQRSRLLTLIFKDERAPKCASFELIAKMYLTKVIHKDELEEFEHQLQDHQKADEHGESILKGVIQEHNITAISQLYINISFKTLGQLLGVDTEAAESMAGEMISSERLHGYIDQTNGILHFEDSNPMRVWDSQILSTLEQINKVSDMIVARHSEFAEFLT | 0.423 | | 56 | In | 0.826 | In | -1.2 | S |
| >8286db7c2b07c2a5084beba587cbbe295b0a0ab4 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMWTNTFKWCSKTEKETTTADAKVCASVQGLKALQQQIMDSTTVRGSVNNTMTPGGINQWHFHNKRANKVCTPTVLIHGYAASSMAFYRTFENLSDNIKDLYAIDLPANGASEAPALQVNKTKKIKSLRFKHIEDDVVIPVIEKRPPAEDIKSHLEQYESYFVDRIEQWRKDNKLRKINVVGHSFGGYISFKYALKYPDSIEKLCLISPLGVENSIHAITHKWEPNTTYPLTFTDPSSRYYTRKLNVPRFIFENQLNVLKWMGPIGSKLCSNYISTAYVKVPDQIYKDYLLHSFVGKNQTVQPQTIKVFTHLFERNLIARDPIINNVRFLNPATPVMFMYGEHDWMDKYAGYLTTESMLKNKAKASYVEVPDAGHNLFLDNPQHFASSLVSFLSK | 0.223 | | 28 | In | 0.914 | In | 1.74 | In |
| >1274e0c874e3fa45ece394f6edf35c108714946e |  | |  |  |  |  |  |  |
| MANSAGSMPVKIPDHLPAAGILESENIFVMSETRAANQDIRPMKVLILNLMPNKIETETQLLRLLGNTPLQVDVDLLRIHDKESKHTSIDHMNTFYRDFEDVRHKNYDGLIITGAPLGQIDFEDVTYWDHIREIIDWSQQHVTSVLFLCWAAHAGLYHLYGLNRKILEQKRSGVFVHRRTCQHFPLLRGFDDEFFAPHSRFAEMDVEEIRQHPQLQLLAESDEAGAYLVLSRNNRNLFVMGHPEYQKSTLNDEYHRDLAQSLNPNVPQNYYRNDDPKADAIARWHSHGSLLVSNWLNYYVYQLTPYDLSDMTAMTPWESQLEHHHHHH | 0.222 | | 11 | In | 0.929 | In | -0.8 | S |
| >4acc1d72ed42f14f7b915bea688147fa38e5302a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNITTDSLQQAWHRLDAPGSYEWWYFDAEDESEGISVVFIWFVGFAFSPYYLSHYEEWKAHRRDDQPYPLDYGGFSFQLYQDGRETINFIKEGGRELFASEDGGIGVRFEGNRFVYDPLRDEYRLSIDFSFPARDRSVQASFSFRPLHRFDYHFDTDLHAGVDFRHQWVLSVPKAEVHGLLDITSLSSDKRQVLQFRGRGYHDHNLGTVPMYESIDRWYWGRTFSRRCDLIYYVVFLRGCSAEPQAVLMLLDHKTGRQSTFDAVRVSESRFTRGLFAPVHGKTLRLEAEGVSVEVQHQKALDTGPFYLRYTSLLSMMIGEEAQEEVRGISEFLNPAPLKSRLMQFFTASRVWRAGKQSAMYVLYNFFKHRFERVHRINRKKF | 0.194 | | 76 | In | 0.87 | In | 0.39 | In |
| >bc75c884c5c95750da2e211b82555a693e809660 |  | |  |  |  |  |  |  |
| MSGNSCFFILSMCHRSLRLFVKETATLCLRVLARPLKSGEIGIFLVIQKWEGGCFHYGYFSFTNPLKVNSGLDLLLIFCSFPCLFDVLVFTFKELAREYDEKFKAFQDDLQKWEETSERKEYAEFHRVQAESEFPELKREREDRERWARAERIRGEDEKSMLAKEHADKKIRLGVAKIPRLLTESERKMDEFVERPGSILKDMKKEHRQSVLDRLEEWSPEERSLFKSRQADHVKIFHGLTEFFVDKTASDLVLFYYMNKKTEDYKKDFKPKKRVTKYKVGAFPSVEELAYFRMMPPLDFSSFPKNSLMCYFCCRTVNGIDLNGTFMPKEAYEIFAICPDEDRVVCSGCREEAAKLYKDNRCFGNRCSNQKKRANRVNRNIPLDFADFPVRTRAFIMDKLGSTRVAVKFCTPCKNALTRWINDVNNKEETIMAELLNYEGQVGWTDDEKTKLVTLINSSPTLDWVSISEGMNRRPNECKMQYDAMNGVKTQPMIEEVDEEDGNGQEEGGDALVNTPTTSSAAARRSGLARNAKKPVRTPRAPRSAGGRRTGGAVTRAQAVPKPVEDLGEEIDEMEIEDNDEDASRGSRGKDSKAPSDRDGSPADMEGDSPEGQDQDADQDQDQDQDVDEEEEEVIVRDIDSPVKTLLSPKILSGGHKPDFPPVPRIQKPSTSSQPPPPEPMDTKENESDDGEEDNDILEIDVDEPPAKRPTPTSSSSHLIGSSSVGGSERELGGRGLVQQQQQQQPQAQSAAPPVTVSTAAAATAERLVNATSPSPSVASQHLVPTETSTSVPPVTIVPPAIQQPVVVISGAAPQFTQQQTTHSPALIAQPIPQQLIPQRVSTPAQILTPTPVRPTAASTPSMDQFLGLFKQQQQQQQQQPQQSNLMQQLGNINPQFLALLLQQQQQQQQVQQAQVQAAQTQGSLTSGTPFQAQQRPDEALQKLFSSPVSAEFALTFNSLKAQAQAQYQMNRPQLIPASVQMPIGINTAYHQKSLTPSETSASATPPAHRPRAATTVGSKMPAGRSNVQEAELRTLKEELIKRIRLFRDRIAEDAHLKREEENIVTYTAQIQASRVQYNTEILGQMKQRYEQAAARRIEIVKELDEPAKFINGVQNKFNDFSVFKLDEIDRQTLHEILQRYAAEQKPDQLQQQQNDFHNLLRQNNIGIRQAQPQDREKLLQEQQLNQYLFAAQQQHLQQQQQHHGTQPEQKSKRKSGIESITSMQGAPHRHIQLAGPSSSRIQSGRGVSPALSASRSVAPTISGAAGRSITAGTSGHSSTSDYNKELAERMNEVFKPTHPQLLQTKASAMNSNAVSPANTNNSDEIECVYQGPPKTPASIKRLQPTEGPRTLSGQRMKSILSVPAHQRRSSIPPVKTEDEAMECLSMMMYEEAKAPPSDRIVTKLISSSEAAAAANPSAKFSYLDIFNDVVKRDEERCQRMLQSTSVLQPSRELDAFLQQLQQNPQQYANLSAAEKLALQQYQIHSAHQKSQQQAQLQAAQQLQQQQQARPDHYEKFHLLRPNAEIVRPIPTTFSHFLNKATTSTVSSSASAPQFLQPPAAASIAAPTPISTPHAMPSPSVGVQTAPPTPQAVHHPVMPIIPGKPSSVNSNVSDVSSDDDDVRNPEKLPANRLPPLPGDKTAFRSVIDLRATGHVAVTKKIPVKYPLVVQAQNGIQPIKDYGPPCKNLVYEDLSDDE | 0.524 | | 99 | In | 0.985 | In | 0.94 | In |
| >f380a095648a09e42695116ff023dca1babc15d4 |  | |  |  |  |  |  |  |
| MSEEKIEVKETDMEDPQRDMVISVVREAQRLYNIDKDVAAFVKEELDKKFGATWHVICGKCFGSRVSYEMGHFILLKCNKVRGNQFYKCCA | 0.579 | | 99 | In | 0.516 | In | -0.39 | S |
| >7f2c4866b8aae82ec67582c3248d73767e325ca1 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNPASLDHPDGHLGILICGHGSRNRLAVEEFAQLVKALKPKFPTIPVEYGYLEFARPVLREGLDRLLEQGVKRVLAVPAMLFAAGHAKNDIPSVLNNYAAEKGLIIDYGRELGINDLMIGAAGARLKEALESAPDVPLCETLLVVVGRGSSDPDANSNVAKITRMLVEGFGFGWGETVYSGVTFPLVEPGLRYLVRLGFRRIIVFPYFLFSGVLVSRIRQHTKRVADDHPKIEFLAAKYLGDHPLVIETFRDRIDEILRGGNTAMNCSLCKYRSELLGFENEVGLAQESHHHHVEGLTESCTLCKKECTGACQPDGIPVSLKEKAHDHDHDHDHDHDHDHSHDHSHAHYPYPHAEHPFGPVSLRKSSETET | 0.4 | | 90 | S | 0.69 | In | -0.02 | S |
| >8bc13a96a919fdcb0e3ad902b75a287ee3bdb096 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEKLTVGKMTITWLRGGVTHMDGGAMFGVVPKPLWSRKYPSNEKNQIELRTDPFLIQLDGQNILVESGIGNGRFTDKQKRNYGISEESFLEDDLQSLGLTVADIDAVLMTHLHFDHASGLAKQKEGEWVSTFENAVIYASAREWAEMREPNIRSRNTYWEQNWRPVEQQVVTFEKEQEIIPGIRMIHTGGHSDGHSIIVIEHEGETFIHLADIMPTHAHQNVLWVLAYDDYPMDSIFAKQKWQAFASEQEAWYLFYHDYKYRAIKWNDEGEIVASIERTPTSYK | 0.159 | | 47 | In | 0.567 | S | -0.92 | S |
| >d6ff173b7b8e39d33db6ca03e132296d50671da8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLPFTRQCNWLHSFNNLPTSRTRRPPPMNAALIPNAQPTLAAWHEMLATHSFEGLGEIMADDVVFRSPVAHTPYPGRAAIVLVLTTVNQVFQEFRYHRSFASEDGHSVVLEFSAQVDGKQLKGIDMIRFDAQGKIAEFEVMIRPLSGLQALGAAMGARLASQKQVLTGAA | 0.132 | | 32 | In | 0.521 | S | 0.96 | In |
| >f3b946209157c572e56cd54b8281da3be733b5d4 |  | |  |  |  |  |  |  |
| MTLNTEQEAKTPLHRRASTPLPLSPRGHQPGRLSTVPSTQSQHPRLGQSASLNPPTQKPSPAPDDWSSESSDSEGSWEALYRVVLLGDPGVGKTSLASLFAGKQERDLHEQLGEDVYERTLTVDGEDTTLVVVDTWEAEKLDKSWSQESCLQGGSAYVIVYSIADRGSFESASELRIQLRRTHQADHVPIILVGNKADLARCREVSVEEGRACAVVFDCKFIETSATLQHNVAELFEGVVRQLRLRRRDSAAKEPPAPRRPASLAQRARRFLARLTARSARRRALKARSKSCHNLAVLLEHHHHHH | 0.583 | | 71 | In | 0.894 | In | 1.32 | In |
| >f4f9539db39a5472cf2216ca904767738cff6560 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHAQNSDQTDEYKTLLKKIMTLSGSSASSEAIMSQLMSSMKNGPFQQDEAYWKDFASKWTRKIEDKVMEVYAPIYQQHMTLDELKKVVAFYESPAGRKLGETATAVATESMPMIQQLSMEMVQEMMPKLQKSRELVRDDAAEQAKTRDQKLFDAAYTAPKDSIEIVADRTYEHGMGTKPLLHSIERRKDDTKVTFLQPIYFDWQWMYYSPGFKIVDKKTGDEYMVRGYDGGAPMDKLMIIKGCNRKYIYVSLLFPKLKKNVKEIDIIEALTDKEELPSNDDGKAKSYFDVKVDDYLVLSRENKKVYY | 0.2 | | 93 | In | 0.949 | In | -0.15 | S |
| >a9c716bc8d02113a198dfcb8e18deb3176aab27b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDEEQLKTLLLANEPISRILTIIRDLKLSDAWLCAGTLRNFIWNYLSGKPAFDKETDIDVVFFDQTISYEKTLRIEKELQAAYPAYQWELKNQIYMHVHSPNTEPYHNSCDAIAKYPEKCTALAARINDKGKLELFLPYGLEDIVQFKVAPTPHFLADEERMRVYQQRLLKKHWQNKWPQLQFLKGD | 0.132 | | 89 | In | 0.526 | In | -0.49 | S |
| >b22c380711858c47de78eec0f556d31b44fe63ac |  | |  |  |  |  |  |  |
| MGLRQSLRIAASTLLLACGLQFAHADSSPQTIVFGVAPGPYGDMVKQAIAPTLKEKGYKVVVREFSDYVQPNMALANGSIDANLFQHTLYFDKFTADKGLKLSKLIVVPTAGMGFYSRKINSLDALKKGDIITLSNDPTNLARGLRFLQSLGLITIKDNIDPTKASERDIASNPKGLVFKPLEAAQLPRTLDGVTGALVNGNFAVAAGLDLSSAIKQEHLDENLKNIIAVRSEDADKPFAKDIVEAVKSPAYRAVIDDPKNIYSAFQKPEWMTATP | 0.48 | | 75 | In | 0.528 | In | 1.36 | In |
| >3c75927adf0c87f4505c2ebfa0fdcbd2c5fdd9dc |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKIQSLQLKYFKKFRSSTFDFTDPETGLARDIIVLIGMNGAGKTSLLQAIAATLGTATGRLKEPSDLEWAGFNYELLGSNWGAFEPEVTVQVQFSSSELEAVRYFQQKLREMGRDLQPPAEKHIVNLKWRNGRVQADSAAELFQFKGREYAKQLLRAEGFSAFERVGTILWYTEQRTSTSLTTEDPERKLEITEDLLRDRLSKWRQFHQDVGTPKIPNLRPGQKDLYAEIERAYKAVFPERSFEGPVLRENVDDILSEPWFYLYDGKNQYEISEMSGGERAIFPMLMDFASWNIHNSVILIDEIELHLHPPMQQALLRALPKLGTNNQFIITTHSDYVEQLVPEAYIIRLEV | 0.376 | | 34 | In | 0.714 | S | -0.23 | S |
| >36e3909523b20085c93c3ed9db9aaffe31ede5d2 |  | |  |  |  |  |  |  |
| MGLCQSTVDVSPAKSNSEENVEKERKAISEMLKTAELADGLLGTTLQWEDVQKIAEESAGHNLKIGEKKTIKPLAEGVGLQSLLGIAEIDWEVEGDDKAPYPNKFALKIGSPVALLQALEAQAAKLPPDVAANISDEFISFLPPCHNSENYFYKYIQSLPKLDILPDFYFGNQIELEKDGNYSKGCIAIELVEDIKTLSPLENFSDDQMLQVLDALAKLQVQFINLSEDKRREAPHQGLSGLYSPFKDWFLQLNNGLMALFPDPEMQKLTETFATTLPEIITADELDLVPCKLGMKKVFVHGDLWSANIMWNQEGHLKKLIDFQMIHFGLAATDLARVMNTCLSPEERHANKEKYLKHYFDCLTKHCKEDDHPVPFDLEQLTTTYNLAYPRVSAYLLPALTAVLEKVVSMPNIPAKPMVIGSFISKVKGIYSDIIATHESRPEI | 0.553 | | 97 | S | 0.665 | S | -0.79 | S |
| >d0da18feae8bc5977d960f1d7c8aa2986752e929 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHAEEKVKSNFEANLAALEMYKYDEKGISDALTEAEYKQIQTYNSKDKVSMIAQLTPLYGKENAEKIYETIVKLIQGVEKTVTVESSSKDKITLKVVSKALDTSKVMSEANTLVKSYVTDEKNYDKKEKEVQDDMTKMIIDLYNKKPTKEVTTMITYTKKDGKWQPPSNIQKLCEGIYTI | 0..258 | | 100 | In | 0.703 | S | -0.08 | S |
| >7cc4769b8728c0cf734f094b00cc20b737b04ba2 |  | |  |  |  |  |  |  |
| MSLRVQNILINSLRQYSKQILKPPGYASPEKTNHLKKFLVDKIRVSGPITVAEYMKTCVSAPLVGYYGQFSKDQKVFGAKGDFITSPELTQLFGEMIGVWVFHELANTGHKGSWQLVELGPGRAQLMNDVLNALAKFNDKDVSVHLVETSDALIDEQEKSLCIYTSKNSIDTPFIRKNKTRTGVNIYWYKSIDDIPDGFTVFIGNEFLDALPIHQFHKSGDSWNEVYVNLTKDGDLCFMKSKGENLHTKGLIPSAIRDDSSRVTWECSPESGTVVNQIVDRITTFGGFSLLVDYGHDGSRNTHSFRAYKNHKQVDTLENPGLADLTADVDFGYLSTLVKDRVVIYGPNEQREFLAQLGIEHRLRRLLQVCKDRKQQEQLIGEFYLFNM | 0.583 | | 51 | In | 0.969 | In | 0.83 | In |
| >f3b4d61439dd7194318fa98cf6de4c69eb38e30d |  | |  |  |  |  |  |  |
| MGLNNARGLSFGLDGALYVTEAGTGGNGACIPSVTGQGGSLCYGTSSTVLKIENGVTSPVLTGLPSIALADGTGAGGARDIQFDTTGKPYILMGYGANPTFRNNLGNIDLGKIIAPDFQTNSWTSIADLANYELVNNPDGGDINSNPLGFFIDGNNLIAVDAGANNLLSVQTNGTNLQTLSVFPQEILTNPVFPPSGTPSTEPGQVPTPTAPPPPQLPIQVVPSSVVRGPDGAYYVSQFTGFPFPEGGAKIYRVGTDGETTIYADGFTQLTDLEFDSAGNLYALQYANQSAWKGNFDGSLIKIAADGTRTTILSGNGLESPNALAIAPNGEIYITNRSDRPGLGQIIRVENSQAVPLEHHHHHH | 9.566 | | 85 | S | 0.543 | S | 1.61 | In |
| >5c14f74c8a9caf2ead0c6e97e965dcb8862c8793 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMYCTGGIRCERGSAYLKAKGVCKEVFQLKGGIHKYLEEFPDGFYKGKLFVFDERYALSYNSDVVSECSYCGARWDQYKLCSTPQCRQLVLTCPACQGQGFTACCVTCQDKGSRKVSGPMQDSFKEECECTARRPRIPRELLQHVRQPVSPEPGPDADEDGPVLM | 0.649 | | 97 | S | 0.637 | S | 1.03 | In |
| >b79fedc48e90894bf8e48d4fdc4b08f0330e1f2b |  | |  |  |  |  |  |  |
| MSGVKVEINTQQLTTILNKAVQTLANPKAMFGEMGETLLEIHSIRFTQQQAPDGTPWQPLANWYRDSKKYNQDKILTLHGDLRGTLRYQADNHGVIFGSDRPYAAIHQFGGTIKPKNKKILKLGTLYARSIIIPARPWLGISADNEQRLIEIARNHLENAFNA | 0.139 | | 17 | In | 0.658 | S | 1.59 | In |
| >9424a50e186cc1635ccaa39f139a6948f6b2e9b2 |  | |  |  |  |  |  |  |
| MDQLTSQLGSAELQALIAALPHDLTLNPVTSKPSSASSSDLSASTSTSSCIFPPINDMTALSMLSLGAYPGLFTGFPLLSTLPYLNLPPHSTIESLGLINSALYQQQKDVQAAMNSPVNQFTAGLAADGRPRAFSSAATLQHGKDQEKRRKRTRKMEPSLPITTSTITCSSNSSPSSSSITTSVLRTLVEDDDADVHPNKVRPIQVTKEEEDLVRRKTQELLKSMPLQKLEPEVSASGPLRRLIRDEDLPDEVGPDSPFRHYPKYQQKPRSQLVMLQGIQAAVACMCIEAFQLDDKTDEEKKAFCQKQQGLSLDDLVKETVRQELVAAE | 0.663 | | 82 | In | 0.976 | In | 0.8 | In |
| >1a91630676e3b2f7892e1ecb0532892047d77346 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMYTTSIEHHTQLSDELIDTLIGLSQEVPEFDGRHRAEDYQARLGGKTFLVQLIRIEGELAGYKIGYGETNGEFYSWLGAILPEFRQLGLAKALMQDQESWAKTQGFNTLAVKTYNRFANMLQLLIQQGYKIAGLENTAANIDDNKLVLNKLLS | 0.098 | | 40 | In | 0.883 | S | -0.5 | S |
| >10f6379bbd02efc315d5fb195aec40c88cfb2a7e |  | |  |  |  |  |  |  |
| GPDNADPFSAAGQSAWMDALVTALDQQRFSLAFEPLHAVDGRLVRMEAMLMLHNDDAREPIPAMLFIPAAVRLNLSAECDLQAVRLALDWLAAQPGELAVRLSLPSLGKRSFLRQLELMLADRRAQVGRLYLEVDAHGLVDREGDVIALERIAAHFGAHVGLRRLAQQFGAMSRLHSLPLAYVKLGGGFVGGMSQSPGSRQLAGSVIDTARALNIDVYAEDVPDAATRDILASMGVEVMRGPGVTPP | 0.583 | | 24 | In | 0.581 | In | 0 | S |
| >4e8719a0e93baebed137852e04fa4557e565023a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKVWRVEKREEGWRLDQFLKEKTPSWISRSMIQKAIKEGKVKVNGQIKKPSYKLKEGEIVEVDLPEKPQEATVQPEEIELKVLYEDRDIIVIDKPGDMIVHPVPSKLSGTLVNALLHHCKDLQGVGGKLRPGIVHRLDKETSGVIVVAKNDFAHQSLSKQFKDRKVKKTYILLVKGKMKNDEGVIDLPLARHPVLRIKMAVVETGKEAITEYRVLKRFDDVATLVLAFPKTGRTHQIRVHMKSLGHPIMGDKIYGKPKEDEIFGIKRQMLHALKLGFFHPRTGEWMEFVSPLPEDFKEAIRRIHEYVRERS | 0.385 | | 98 | In | 0.615 | S | 0.48 | In |
| >41969f601875e43309be78d96abf9cd0c2e0370b |  | |  |  |  |  |  |  |
| MLIRLNWSEKKEQAVDSAESSFKVYKIYNKSHKCDAHHVFMIFYYSFMI | 0.145 | | 100 | S | 0.646 | In | 0.49 | In |
| >a5ebb8c737f35f409f003a1678103bafe567e59f |  | |  |  |  |  |  |  |
| MTSSNDSTSTTAIFRQWLHNLDEDALHRVLEHRPDTTHPLPPGISSLAARLSLRASIMRALVRLNARELAVLEAASIAGAEIEPVDAPKLVELVRSYSEQNTHDTNRWAPSESELLATIDTLRDYALLFGELAALRIAPGVMDALPAGWQLLPSAHVPNATELPEILEGLTTKQRSILHTLAQSGGTGVTKDAAIDADPSRPIPQLIALGLVTRHNSHTVTLPMSVRFALSGKPAPVLPLCPVAVSQEISSASRVEEQSTAAGLEAVRLTRVLIDVLSDSPIALLKDNAVGVRPVATLSRALDVEE | 0.371 | | 47 | S | 0.841 | In | 0.02 | In |
| >7d22c22f89ba4efe3c75961c4b26a7d1e20cb607 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMFNNKYIKIMRWEIMFKFDREQMVVEIAGRKIGGQPGEYPTALAGTIFYARHKIVEDERKGIFDKAAAEDLINKQAEMEDITGNPALVQVFGGTPEALVNYIDFVAEVWDGPMLLDSTSGEARMAAAKRATEAGYAKQCIYNSINVSIDEQEYQVLVESDLEASIVLCFDPMDPTVEGKINVLTNGGKTADKGMLELAEKAGIKYPLIDTAVTPLGNGAGAAVRASFAVKALFGYPVGSGIHNIPSAWDWLREFRKQLREAGEREKAKDIHHVCDVGANLVQVMASGDFVLYGPIDNAYMTFPAVAMVDAIIAEAAKELGIEPIDTHPFKKLV | 0.165 | | 82 | In | 0.565 | S | -0.76 | S |
| >4e1adf0f96c9583696b108eabd558481c97eeff0 |  | |  |  |  |  |  |  |
| MTTPIVRQALYLEVADRLRTMIRTHALGAGAWVDEAGLTEQLGISRTPLREALKVLATEGLVRLEPGRGCFVNELTVRDLEQIFPLMAMLEGRCAFEAAQRAGDDDLRALEPLHRALQAHAQAGRIDAYYETNYRIHVAVQTLADNRWLSDMVDNLRKVLSLFRHKSLALPGRIRESCAEHMAIFAALKARDPEGAEALTCKHLLCQLAALQALAGQEPAGGAAAIDSPAVQAVQELNHVRTRSPGIRTRRTHA | 0.3 | | 37 | In | 0.672 | In | -0.17 | S |
| >48a2d8753b15321b5774efd117aaa6b315021ae3 |  | |  |  |  |  |  |  |
| MAEIHENERQKDRSKPSLSDMPIEIIEDIISDLAAIDRIAVQKVSRGFRDVINREDFGVKRLSLEVSTKSSILSFDDTEVEYKNVHGDCLVKSGNREKIVNGSDHSTLSMNDIHNLLKNPKVQLDYFGLVIAGDQTCRFENVLEMLQSLNFKLCVKNFSVARFPLKYVISFFKCLAAEQIENITFYSDEYDEENPKELVKLEQWKKAKFIEIYGGYTFPFKVEDFLHFTTFWVRLGHFTTEDAAKVRDVLMKPNNINYGYFDFSIYDPIAIARIFEPNYNGPSYGALRVHSTGGIFSAVFSKNQLKIKRKSNVN | 0.316 | | 68 | S | 0.983 | In | 0.56 | In |
| >f366b009bf059db493109e74c158efb1e28e6cb3 |  | |  |  |  |  |  |  |
| MKIAIIGQSAFGVDVYKELRKNGHEIVVVFTIPDKNGREDLLAVEAAKDGVPVQKPSRWRKKNPETGKFETLPEMLELYKSFGAELNVLPFCTQFIPLEITEAPAKKSIIYHPSILPKHRGASAINWTLIEGDEEAGLSIFWADDGLDTGPILLQKKCKVEENDTLNTLYKRFLYPAGVAAVAESVELIATGKAPRIVQPEEGASYEPYITTKPELAQIDWSKTQRQLHNFIRGNDKVPGAWAVLNGEKVSFFGSKLWKPKKLPDDAVEVFVSEVPGGKVLVEDRGLLLPGSDGRWVIVDTVKIGTKTVPASKYGQGADQVQELVLTDEEKSTVAKLKKIWTGILKTQVSSDTDFFESGASSADVTRLVEEIKFNTGAELESGQIYAGPTLGENIDIVIRNLRGEGGISVTYDPIVLNVNNMELKFPHDQFIDGKFVGSSDGRTFKTINPATEKPICELPLATVADVDRAVRAAKKAFERGEWRQMSARERGKRLYKLAELMEEHKEELATLESLDAGAVYTLALKTHVGMSIDVWRYFAGWCDKIQGKTIPISNARPNKNLCLTLREPIGVVGLITPWNYPLMMLSWKMAACLAAAKIKLIEISGVINIVTGSGSLVGNRLTAHPDVRKIGFTGSTEIGATVMESCAKSNIKKVSLELGGKSPLIIFADADLEKAVKQACGAVFFNKGENCIAAGRVFIAKSIHDDFVKKLVEEAKQYQIGDPLDRSTAHGPQNHLAHLNKLVEYVEKAVAGGAKVEVGGKRLEREGLYFPPTILSNIDDENFAASEESFGPIMCVSSFDDDDIEDVLRRANDTEFGLAAGVFTRDSSKSLRVAEALHAGTVFVNTYQKTDVAAPFGGFKQSGFGKDMGEEALNEYLVTKTITIEY | 0.618 | | 86 | S | 0.736 | In | 0.41 | In |
| >f60e0bc787eba1756eb9e10405eae18cda715981 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLKINPLSTLYVGIDVSSKSNYVCALDFYKNKYINSSFANNQPGAEELAKKILECLKEHPDLNTIVAALESTSVYSIHIANFLSSCEELMHFKPYVFVLNPKCTANYKKSYIGLGKSDPIDAFVIADYARAGNIETEPWRGSQFLALKRLTRHRLHLVECMTREKTYLVSNLYLKFSELQMLEGDDQPFCDIYGATSSSVLTEYLSPEEIIDSSEEDLISFLAQKSRNRIKDISKTAELLRKAARDSYRLDKALYEPLNVSIASSFNCIETFKKEIKLIDIAIEREIRGLNPNAFIILQSIDGIGPVFAGGIVAEIGDISAFHSSDALAKYAGLMWKSNQSGDFDGEDTPMSKAGNRYLRYYLGEAANSMRKHNVEYGAYYRKKYNEVPKHQHKRALALTSRKFVRLVYGLLARNQLYSGVSLDTSNE | 0.199 | | 51 | In | 0.879 | In | 1.08 | In |
| >8adc9e048e05253db61074a7517519cb1d23530b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMMSRQQTLLARLDQIGQQLEHTNNAWLLLGLGSVGQELERLDRYSDLDFFIITKPGQKQRFLQQLDWLESVHPLSFIFQNTVDGFKLLFADGIYGECAIFELDEMPEIAFSPGRIVWQDSTFLGVDLTVSKQAPPPIRRDTLDFALNEALTNLYVGLCRYARGERLSGLQLVEQHAFSQLLSVLHLLESEVVYYPDQYGNERRAEQRFPQAQERFADVLQGYTRVPESALALLEWLEQIQPVNSSMAAEIRRLAAECRSKQNG | 0.125 | | 27 | In | 0.554 | S | -0.81 | S |
| >80d22d5673e55bf9a1873e7933ea3d72e7254bc8 |  | |  |  |  |  |  |  |
| MTLFDGTPFEWAPGRIEVRARRECGASRKSLVVAAGVSYLARMIFSFDAFVTNALFDRSGRAMFALGDGTVRLQTDEGFVTVEAHGGPLGGAVLAAAVHPSGAGIVTGGDDGRVVWSRIEGGEVVATLIAEVKNKWIEHVAASAASGLIAFTVGKEVHVRDAADPAFARTFPHEKTVSGLAFEPKGRRLASATYGGAYLWYARIADQKPTVLKWAGSHIAVEFSPDGKFLISSMQENQLHGWRLSDGKDMRMGGYPSKIKSVAFFDKGNLLATAGASGAVIWPFAGANGPMGKEAAEIGFSRDSMVVRVAGIDPQPVCIAGQDSGKIWAAHMRNGRIETLKAEKGAPISALSVSADGKRLAWGDESGEAGVLEIPDLSGPRQFVGLEHHHHHH | 0.444 | | 42 | S | 0.781 | In | 1.29 | In |
| >48ba1f7533d55c298dc9d9c9b8d808fe5db1880d |  | |  |  |  |  |  |  |
| MKSTTNLPIRQNDDNRRRKEGKSQNRRGGPKSKPQPTIVPPRKTPSPSTVTPLPTVIALPAVSTPSPAQANLLKDPTATSPNVPGRERKAIRRKVTKEKVEKDPPKTTVRKKKNQVNQSLSAENTNAKTSSDNDERAGSKNDKPKKKNSHTSSDSRRRRSSAEIPSSGSKEDEKSGQKFNKDLAKNFFKHVQSQRAQKRSDDARLERMPESSQLNASARAMRKKKTNAPKTSLDSDLFKPNGEPVWVVPERAPGDCEKNDEGVPITNPELVAALAEDNIEIDEKSWFDHIGDYMSCAMPRGVTLPENHTFDSLAPRDKLEANSDFVSQETVAYNTVKNLVELSEDAIKRFSMKRDGIDDRARPTVTQDTTVETTIETTMPLPPVKALSTDTISTTPGKAISFHMKNVVCLSYDRNHPIQSIRKFRKKMSSKGVMEQSTQPKDSTKEL | 0.513 | | 98 | In | 0.987 | In | 2.01 | In |
| >273fada5e585a2b7e2bc85f388b5cd7812ac53b9 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKVMLRVDDAGNLTVYVPKKDLEEIVVYYTYGAGGKILTLANGWELEFREIPDVANLPKTLEAKKLE | 0.12 | | 98 | S | 0.632 | S | -0.81 | S |
| >c165aee2877e6209198873c42d9b92b4d3487ff6 |  | |  |  |  |  |  |  |
| RHDLMLEKQVQTQHLVESAYTLLEHYAQQATQGTLTTEQAQNTAKQAIAQLRYGANDYFWINDAQPAMVMHPMKPDLNGKDLRSFKDPNGKALFV | 0.616 | | 94 | S | 0.609 | S | -0.47 | S |
| >4b24355ddada794d58b4ee9db5fe2919a0b449e2 |  | |  |  |  |  |  |  |
| MNKYMFRWPIRVYYEDTDAGGVVYHASYVAFYERARTEMLRHHHFSQQVLLAERVAFVVRKMTLEYYAPARLDDMLEVQTEITSMRGTALVFTQRIVNAENTLLNEAEVLIVCVDPLKMKPRALPKSIVAEFKQ | 0.253 | | 73 | S | 0.539 | In | -0.53 | S |
| >5abd7361c687cdc8e7044e475c79898e12e71651 |  | |  |  |  |  |  |  |
| MTANLAATDDWGELLDVLDPGDPTGSRVIARYDRLRVHREGLLHRSVHVCVVRSVPDWPAQVHGLRNTNYKLLLQRRSESKAIAPGCWDLSCAEHLRAGESFEGAAVRGLQEELGLALAPDQQTTPIHALDDGEPALQLYDYPSVGLTDYEWNRIYVVFVTDQADEALAKLKLDSAEVAQVRWITRESLQMELAENPSHFTPWFRDQARKHLLPSAYN | 0.485 | | 48 | S | 0.61 | S | -0.98 | S |
| >0543ebf6e1d851cdab2f859562e4a40753dd7347 |  | |  |  |  |  |  |  |
| MLLNMMCGRRLSAISLCLAVTFAPLFNAQADEPEVIPGDSPVAVSEQGEALPQAQATAIMAGILPLPEGAAEKARTQIESQLPAGYKPVYLNQLQLLYAARDMQPMWENRDAVKAFQQQLAEVAIAGFQPQFNKWVELLTDPGVNGMARDVVLSDAMMGYLHFIANIPVKGTRWLYSSKPYALATPPLSVINQWQQALDKGQLPTFVAGLAPQHPQYAVMHESLLALLSDTKPWPQLTGKATLRPGQWSNDVPALREILQRTGMLDGGPKITLPGDDTPTDAVVSPSAVTVETAETKPMDKQTTSRSKPAPAVRAAYDNELVEAVKRFQAWQGLGADGAIGPATRDWLNVTPAQRAGVLALNIQRLRLLPTELSTGIMVNIPAYSLVYYQNGNQVLDSRVIVGRPDRKTPMMSSALNNVVVNPPWNVPPTLARKDILPKVRNDPGYLESHGYTVMRGWNSREAIDPWQVDWSTITASNLPFRFQQAPGPRNSLGRYKFNMPSSEAIYLHDTPNHNLFKRDTRALSSGCVRVNKASDLANMLLQDAGWNDKRISDALKQGDTRYVNIRQSIPVNLYYLTAFVGADGRTQYRTDIYNYDLPARSSSQIVSKAEQLIR | 0.417 | | 70 | S | 0.688 | S | 1.56 | In |
| >e957eb946ec25b84c839e7339d5eaf565acfd862 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAATSGNILDTIGALYDSLTKTEKRIATTVLSSPELLGQNSLAEIAQQFDVGEATFIRFCRTLGFKGFTDFKLQLSIELATKDRQSNSLLETDISKFDGTSQIAEKLQNVIHNVISETVNLLDFAQLEKVVELMRVSKRIFLFGVGSSGLTAEEAKNKLMRIGLHVDATSNNHFMYMQAALMNSSDIVIGISHSGYSKETVQALNIAKKNGAVTVALTHNLRSPITMVSDYVLINGNRQGQLQGDSIGTKIAQLFVLDLIYTLIVQAEEESAVQTKQKTVNVILEQRIK | 0.153 | | 90 | In | 0.716 | In | 0.39 | In |
| >7a84130b2f0b69a077d4ed04cf41db80704ac7cb |  | |  |  |  |  |  |  |
| PEFVRQCMGEIRVIDVNQATLDMFCAPDKRTLLSHLRDIFRDSMEPHFREQLIELWNHHYYHSREVVNYALDGSERAVIMHFAVLPGHEHDWSLVQVALTD | 0.584 | | 63 | In | 0.684 | S | -2.35 | S |
| >8f2a27663f86810c02a29a9a5b0e9fd948199d40 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMICASGARIVGAVTEDDLKFSLLYKQSDPTESLAQKIVKQFIPPLVTKARMLIDRILPAAGSDDMIPASWDQFESAADTVLRDPHVRSSLVKVIEDADLAVIHGDGCMVGNTRIARAELFLSYLIKKRFGKPVIMVNHTADFDHPTLRAMAENVYPLFDDVVFRDPISAQRCTSLCRGRFSADTAFLFKPAPLADWLPVAQRPTYFDVWPDTACFDPAKPYLCIGGSSIFSYNGTPQELIERVAALVTHIGSIYRGQIVLTVSDIVDQAVFRPIAQQLNLPLVGLTTPVQQAVDIIGNAQAYVGGRWHPSIFALRGGTPVVPISSKTFKMQALIEMSGLASCTFDALSIDQEKERMGQQLMSYIAQGDGLRHQLKLWAEEKSKNCWDNVTYLKQFPGSATTA | 0.153 | | 38 | In | 0.876 | In | 0.39 | In |
| >2ccd972e33bc3e5a800cd2e2df92558ca3bf3956 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEDQKNQKPARIPPPAQRKDGIQRYPAGYLLARVGSQIGHGFPAHGFVPAQKVFEDACLKLGVLYAGQGETVQAEEILRRALAMDPYSESICLELLRLLMAQGMRSKALCLYNRFQKNFEQELGIKIDGRLTEAVHPQSAG | 0.124 | | 67 | In | 0.545 | In | 1.21 | In |
| >61697e72859bbe485b1161569f81b36a6ab8a624 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHPREKTLILPFLFAPLPAPGNWNLWAGWRAQNCGLHQFVTEPLWTINPNPEEGGIINALAAEPPIYNEDFTKLTIKLRKGIYWSDGVEFTADDVVFTIKTVKDTSGLDYHGPMQDVKDVYALDKYTVVVELKRPNSRFHAYFVERWGALRPMPKHIFEKVEDVVSFDFNPPVSLGPYVLKDYDPAGYWVLWEKRKDWQRTVTGQLFGEPVPEYVLFINYGTPEKNTMAMLRHELDVLQGSAEQLITLLRMSKTTRSYRKTWPYIDPRDISTRGPGFNHMVYPYNIKDVRWALALSIDIVKLAISTYDGMVAMTPGLPLVVNKNFYEWYFKRLEPWLEELTLDLGNGETFKPWDPKAPWRLLEWAKKMYKVDIDPNSEEEVRLTLGYGWWKYAPDAAEKLLKKHGFYRDENGKWHLPNGDLWKITILRGPDPTDMANIIIEGIAEQWKEFGIEVVFNVSSAASTLAGEGRFEVVNTAHGGFAGEPWGFHPDLYRCFNAFRSEFVKPIGELTLGSALRWSDPRMDKIIEELEKTDWNDYEKVIELGVEGLKLEIEEMVAIPVFNCPITIVFDEYYWTNFPSPENDYARCDNFTTWPQLKYLLHMVKPAK | 0.499 | | 41 | S | 0.656 | S | -0.04 | S |
| >b38b6b3c3a44d8124dd2647ae02c682184eee2a4 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLNETPETPAFSLNLTSPDGEPSTDNDNAVLQKLVYHLFIFRSNTANPSPDNDGSNYTFWRHTGDLTLKQIREYTLSIPSESTDRSYLLLVHATPKEKPESEIISKEGMTFSESEISMIKENDNNYVPLSKDNYYAIQQLTPEDIAQGKTSIEFKLKRAVGELVFDVMKCDEKSHNPIDIDTECSSTLDRVFRIDIEINGVIPKVSLTNETRNPERINICFSKEIVLKSDYTPDFANNTGVIEPLTNAPLDTNEKAVKGATRICGPYLFSKMTLDHPDEEATDPEEGIKTILNFSYYDTTPLPNGSYSTKKLILSLTDKPLTVVKDHYTVTNIRLRNNRIIDLSVSGDFGIDWKWD | 0.369 | | 87 | S | 0.748 | In | -0.13 | S |
| >decba817a25b8557171809762da6c1eb9ba658b1 |  | |  |  |  |  |  |  |
| QIKIRKATKEDWEKIYQLYNSLSDEDLYLRFFHLYRITEEDAKKIASNEDHVTFLAEVDGKVVGEASLHKDGEFSLVVHRNYRTLGIGTLLVKTLIEEAKKSGLSTVKFYTLPENTPMIKIGRKLGFKMRFYEDEVYGEMRLT | 0.581 | | 82 | S | 0.631 | S | -0.22 | S |
| >9dc32796198abb4dd8382fbb41dd3ce48c8d3728 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMYDVTIIGAGVAGIFLAHELMAQGQTVLLIDAGKSLEQRTKNEAYLGFGGLGKSEGKYNYSAGFGGELAEKLGTETTLRLMQQVDDVLCRYGADEAGTYSTSNPELAAQARAAGLDTIETTVRHLGTGLSERILQRFEAALQKEVTFRYETLIERIEKQPHGFQLTTARETFLSQRVVFATGRSGTDWMQTQLRMLGLTQDKTRLDLGIRIELKETAFRTLLQDTFETKLAYASTAGTAVTYCMNPKGRIIRKHQEGLVMPDGQNFREQASGTTNLNFTLFLPRYFATLAEANQFAASVIGRINQGTDRIVVQRLEDLRAACPTSSTDLAENKIRPTLEATAGHLMEEVPETDITVLLEFLNRLELLLETPISPDTLLYGMDGKFYAPVLSTSRVFETDINGLYAIGDCSGVTHSLSQAAASGLYLGQHLTQKTAVLRE | 0.289 | | 17 | In | 0.541 | S | -0.38 | S |
| >f6e1f5fcbd18f305f49a57f9a17b331c904b5b29 |  | |  |  |  |  |  |  |
| MLKKILSLFKKEEPKTEEKPTEVEEKKEEREEKEEKKVRELTPQELELFKRAMGITPHNYWQWASRTNNFKLLTDGEWVWVEGYEEHIGKQLPLNQARAWSWEFIKNRLKELNL | 0.556 | | 96 | S | 0.668 | S | -0.42 | S |
| >10fd6bde20964cfd9c3383cedba6984b0096fb54 |  | |  |  |  |  |  |  |
| VDGNARAGIAQAIATAGLVQAYLPGKSMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASVGYQW | 0.746 | | 70 | S | 0.5 | S | 3.82 | In |
| >2f983826a96f0500390103b97ec06629b5ad6b27 |  | |  |  |  |  |  |  |
| MAHHHHHHMDTIAELLKNIDPSRIDEALALLQSLKSNAAPQQPSNSHVPASSSSEACRSSPELELQQLAENGGQSTELLTESWAEGASGTAEEENDMPLASIGHLLSPEEKKKARDDRRAKREAEKEARRRMKEEDAALIKSELDARKVICDEEKESRRILKDTERDARKAEREARNKAREAEKAALKMTKEAPNNLTLFGFLSSTVKAESNKNRLFSPFVQDKRVAPAALQFWRRPEDKISRSEEETSVVNLSSHAMNGGARRDPGKSKSHNVDEESSLLHPPMYCDEGTPSKANVCVRDFNAMIEASNAQEVPVRDLLRQCGCAFHAAVSDPYASFDNEVVFVGFFAIGYDPCQSRPPYFGTYNHLQEGNLNEAELLQMGRFPLRRGIPRLSNIDYEYDSGDDWDVMEGDEDIAASSSSDSDKDTALDSLDSSDLEFIDDSDSDCDTQRKIMEARQRRLHRLRNKSKLVPSYSGPFVGIPTDEHPLRGFDELERFVPLNAAYFSKLVEEELNAFTSGSAGIPASEDEGLSAEEMEAKRQRALMEAALKNRREMTDTELKALHTIIASNSKVSTQMILAAFKQQQLCVGVARAEIERTIRRFYERRHRSLVLRGEPWSPTDERLFARVSSSRKPKSPGDGGTGVVTDDGEGRKRDDNEDADDGTDIDDVPEATVERVAETADDASAKASDVGDGTAPAPVTPSETVEEAGHPKPSPPSSGEAKVETWIAKTKPITLTKLSPKASASASVNMAKRPREEELVEDQNDGATTATSD | 0.65 | | 90 | In | 0.985 | In | -0.32 | S |
| >baaad33f2ca1b9c37dc1f1ee5ade23f2f71c9219 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMQKPCKENEGKPKCSVPKREEKRPYGEFERQQTEGNFRQRLLQSLEEFKEDIDYRHFKDEEMTREGDEMERCLEEIRGLRKKFRALHSNHRHSRDRPYPI | 0.765 | | 23 | In | 0.567 | In | 0.75 | In |
| >2e9a9cbd94d64e46d607242e4d18c19e811b0745 |  | |  |  |  |  |  |  |
| MGPPVFQFTAYDGTTGTLKDFRQTANVLLVFFSWPNSLDRLKELSESYEKLRSLKTVVLAVPLDGYSEAAVAGFAADTPLEVVRDGWFEVKNSYILYRRTLKYPDILGSGNIPDHMEFLVDRFGYLRARWIPSLDQSGWSDLNLLTSQLLQ | 0.317 | | 11 | In | 0.557 | S | 0.39 | In |
| >b0e95141e35d8e9f71841885b1e96be6bb1b2f7c |  | |  |  |  |  |  |  |
| MYDNLKSLGITNPEEIDRYSLRQEANNDILKIYFQKDRGEFFAKSVKFKYPRQRKTVVADGIGQGYKEVQEISPNLRYVIDELDQICQRDRSELDLKRKILDDLRHLESVVANKISEIEADLDKLTRK | 0.54 | | 98 | S | 0.671 | S | -0.07 | S |
| >bd010ade6b3f49cf69056b6fd9942acdc4e1fc90 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMMLTSDRGVMMNNGVLWIKPVMKWMGLTAFLVIAGCSQFKTVTREPGVLGDRVALTPEMTGLYEEVASNASTVRALDGYADLYLETPKRKAKAYCTVQIQKSRDARMIVTAGILGWPVADLLIRPDSLFVNDMLNNRMLVGRNNGENMGKIIGVNAGFGRMIETLFGIADVPEPAKNIESVRKGSGRVSFTVKSGNGTKELVVDPLTRELTGLVYFDQSGRKSVEFRFAAYQSQVDKNGAELRVPREIDMILYREDDPEGSRSLKVVYDERVINPPDFNITFKWPARAKTVNLDEVERLPWL | 0.21 | | 42 | In | 0.689 | In | 1.27 | In |
| >3daacd8fea118212963ed89d7de7366a3c8eff7a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIPLTKTSSDWRRWTIAITGVNAKPDNPGPGLAVARCLRESLGFTGRLIGLGYEVLDPGLYHSGIFDAGYLIPYPSGGSEGQLERLMEIHEAERIDAVIPCLDAELSTFAHNAVALGAAGIRMMAPGLEQLRARSKDNLGELCRDLGIHTPETQKVSDAGFFERCRDEGWTYPLVVKGIYYDAVVAETPEDAKAAFHRIAAQWGYPVLVQQFVGGYEINLTAIGDGSGEMIGPVMMRKRALTDKGKAWAGISIDDDQLEAMGRTIMAGTKWRGGLEVEALRGDDGKLYLIEVNPRFPAWIYLSHGVGCNLPQALLRLMAGDRPTDLPRPRPGTLFIRYAEELIVPLEQFQAMMVEGVVAAPCNKNRVA | 0.253 | | 32 | In | 0.611 | S | 0.31 | In |
| >6794d66dd76aeba0d4b218374fb0b9ebd947a7bf |  | |  |  |  |  |  |  |
| MKIGIIGAGLGGLLSGAILSKEHSITIYEKLPFVGGRFTNIPYKGFQLTTGALHMIPHGNEGYLAQTLRRAGSNVKIVNSEPDGYFRINGKNHEYKDIFGLVSAKDKLKALKLAASLKLGKIDKNMPFGEFLEDIPLALDVGNSFSGWALSLNAYDTPMSEIIEISKLYHKFGGPGIPVGGCKGVIDSLVEIINKNGGKIYTSHAIEKIEVEENNVFLDSEQFDIVISNASPKLTEKMSNIKFIEKEPVPSKGIKINVASKLSLVDGASVIFTTDCERINGLNQPSNVDRSLAKEDYNLIMLHATQIKNNTKEEISLALNDIESLFGGKDYEVISIQSYGNGWPVNHASNGTDLNPIVKDNLLLVGDGVKGVGGIEVEGVAMSVIAVLNHIEKLKKLEHHHHHH | 0.667 | | 94 | In | 0.625 | S | 1.47 | In |
| >5f6a0ec31b23b0678076d52956b9c4b25264fb8d |  | |  |  |  |  |  |  |
| MASPGAGRAPPELPERNCGYREVEYWDQRYQGAADSAPYDWFGDFSSFRALLEPELRPEDRILVLGCGNSALSYELFLGGFPNVTSVDYSSVVVAAMQARHAHVPQLRWETMDVRKLDFPSASFDVVLEKGTLDALLAGERDPWTVSSEGVHTVDQVLSEVSRVLVPGGRFISMTSAAPHFRTRHYAQAYYGWSLRHATYGSGFHFHLYLMHKGGKLSVAQLALGAQILSPPRPPTSPCFLQDSDHEDFLSAIQL | 0.606 | | 28 | In | 0.751 | In | 0.41 | In |
| >f8056b4841879f5471ac17cb04867837f88a26d8 |  | |  |  |  |  |  |  |
| MKNIVVTPMTFEPVYEQDAEIVERKGIGHPDTICDYLAEELSVALSKLYIERFGAIMHHNVDKALLVGGEANPVFGGGEVISPIEIYLVGRALKEYKGVTIPAEELAIEVAREWLKDNIRNLDPDTHVIIKPRIKPGSKDLVDLFLRFQQKGEVPLANDTSFGVGFAPLDDLERIVFETEQLLNSPSFKENHPYVGEDIKVMGVRIKDKVRITIACAFVSKYVENIQDYLEKKEHVRRIVEEMAQGLTQRQVEVFINTADDPERESVYITVTGTSAEQGDDGQVGRGNRVNGLITPYRPMSLEAAAGKNPVSHIGKIYNVVANVIADRVVSEIEEVEEAYCYLVSQIGKPINEPQVCDVKVRTKKDLKSLEEEIKRIAQEELEKMPETWKKFLNREYAVA | 0.613 | | 96 | S | 0.659 | S | -0.84 | S |
| >64cd5ac7c6590a8d200d0c4f2b7feb01d96c73d8 |  | |  |  |  |  |  |  |
| MPASEVQGTTCKPQVKEVRINGFTVSGKKHKVCPPSPLAATMKVKVKENGEPSAKPPHPDLKYLNQILHVPTRELLPEIDDDQEWLLGQSGIKLKKARTDPPDSGESLQVWNQAFRIESADITALPYVVPF | 0.77 | | 100 | S | 0.579 | S | 1.63 | In |
| >a696400e9ec9f9fd6ad708a3004f8c74c2d8e451 |  | |  |  |  |  |  |  |
| SLSQIQHWLPLLTDNSPFLFAILDKDHKYITVNNRYCELSGLNRESLCGRSDSEILGKHFYSSLKAYYDRALNGEKIEAEITLDDHRFDTSLHFSLFPIHEEDTTYIVFHAVDT | 0.428 | | 35 | S | 0.628 | S | -1.56 | S |
| >f25489bc58af1b23e12ba365876d11ced396b1e7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRIHFILHETFEAPGAYLAWAALRGHDVSMTKVYRYEKLPKDIDDFDMLILMGGPQSPSSTKKEFPYYDAQAEVKLIQKAAKSEKIIVGVCLGAQLMGVAYGADYLHSPKKEIGNYLISLTEAGKMDSYLSDFSDDLLVGHWHGDMPGLPDKAQVLAISQGCPRQIIKFGPKQYAFQCHLEFTPELVAALIAQEDDLDTQSQTETYVQTAEEMQTFDYSSMNQALYSFLDRLTERK | 0.16 | | 90 | S | 0.734 | S | -1.11 | S |
| >70a3bc57005f5bf22961fee899619a6f73c2151a |  | |  |  |  |  |  |  |
| MDSESDDNPNDPEDRKKWGHKDVEHWRAVSNVHYYAREGYFGTAILVCDGRLATIKDPALAILKGVCLTLLGKIPDAIRHLETFVTDNDVALGALHALKWAHASAFNPDNKSIVEIETEISTRARNEKTPYTSYATASEVLYFAGEYQKSKQMLDIARKRATEKHAKHYCLLGWIELALGKKQKSTQELFEKAGGQEYPDGNIGRCKILEGHHSAPEMKVAANELAISTIHFLPGHIEKAKASIMMKDWRGVMDCIMNADQPEGSNPYIEVLRTVHGICYAGEVSMLKRTLQLLLKSLDENEATNHVLYARITKLLVSISGRDEKILRHARDFLTRALKISRKPDYVALSMRIAFGLGGAKEVSTLSQELVALDCEDSYAVLSSVVSMLMISRVSDARAQFDILPSAHPKLLESPLYYLIASVLAKQSKDKSFENFRQHIENLVEMLRNQLQSFPFGLDYLSLFSSDLLYSAVEQCFDFYPLVPIKAPDDCMKLTAKTLQMIYDVAPGLAHCTLQLARNSYLCSNTNAAEKWIEKVLDKDDSLADAHILRAELILDRGGKITDADDALVTGLNFNFKLRETSLYHLIKSKTFKKRNENDEAIKTLKMALQIPRKEPSKNLFQPKESADTHKISVQLELIDTLQHMKRIQEAETTMTDALAEWAGQPEQDQLVIAQAQLYLTKGHVERALGILKKIQPGQSNFHLSRIKMAEIYLEEKKDKRMFAACYRELLKVEATPGSYSLLGDAFMKVQEPEDAINFYEQALKMQSKDVQLAEKIGEAYVMAHLYSKAVNFYESSMNIYKDKNMRLKLANLLLKLRNFEKCEKVLRAPFERDPEPVGTETIQTYIQFLLLLAECHEMMDNVPEAMNDFEKAKSLHSRIQDKTLTAALKKEGARICNLQAELLYRRREFSQAVDICKQALAYHETDLKANLLLSKIFKEENKWTLVLQPCQTVIQVDPHNDEANSILADFYYIRSEAAHASTSYTTLLNTNPQHWHALSRVVELFCRNGEQNAAEKHLDRAKEVNPRCVTESGYNVCRGRFEWYTGDQNEALRYYSRTKDSAAGWREKALYYMIDICLNPDNEIIIDENSVENPETT | 0.498 | | 80 | In | 0.908 | In | -0.19 | S |
| >98c4d2baf1db6e44cd2c1cfbdb6ba71b7863edf9 |  | |  |  |  |  |  |  |
| MCDVTLQVKYQDAPAAQFMAHKVVLASSSPVFKAMFTNGLREQGMEVVSIEGIHPKVMERLIEFAYTASISMGEKCVLHVMNGAVMYQIDSVVRACSDFLVQQLDPSNAIGIANFAEQIGCVELHQRAREYIYMHFGEVAKQEEFFNLSHCQLVTLISRDDLNVRCESEVFHACINWVKYDCEQRRFYVQALLRAVRCHSLTPNFLQMQLQKCEILQSDSRCKDYLVKIFEELEHHHHHH | 0.413 | | 87 | In | 0.62 | In | -1.14 | S |
| >76e1b105309e4375ee6c6abc1d25f2c50ed31f43 |  | |  |  |  |  |  |  |
| MRTFSDIKGLPIYEQTTGKMVGTIADIWFTSHGAVKGLVAEQGGLFGRRRYLPLSAVQSFENDRVIICDADSFQPFPSPDSGHSLYGERGLAGSMVVAADGTTIGLLDDVYFDGQLGKIDGYEISEGFFSDLTEGKKRMELAPFTAREGVVTVETTM | 0.74 | | 43 | In | 0.766 | S | -0.37 | S |
| >70d01da26b715187d3ae844b35738cacd1daa8b8 |  | |  |  |  |  |  |  |
| MGSQGGIVSIDAKIDASVMIGKDAVVFPDANIAERACIAEKVCIGNAVRIGKHAMIDHGASIGDRSNIGERSRIYQDSFIGENAVIAARACIGEKVYIGNFVSLAKDSIIDDGVNIGERSSIGERTRIRQGSFIRKGCVIRQRSVIAKRAYIDEGVYIGNVVRILEHHHHHH | 0.192 | | 85 | In | 0.506 | In | 1.51 | In |
| >4599f23a91fd67fd417f3ef3c53e46a66c95857f |  | |  |  |  |  |  |  |
| MEEFAVVIIGAGPAGGQCARQLAQQGVRVLLVEQHSNFSQNNYSSAASPLETMALFDLPPGVVARYWRNLAIAATEKEQIWYSDQPRGVVFDFAKLRQFLADTVTKAGGQVWLGHRFWGYQQVGDGLEVTLRRSSKNSLSSDSVEKVEKVTVKTQVLIDATGSKRAVINCGQPKATDNNQYYRGIGTEYLITVDETTHQRFADTLVFFLGYRWSPQGYSWIFPMDNHQLKVGTAIFAGQHRYLGELKPLRSYTEAIIRDYLKLEKSQYHLEEIHGSVLDYAVNQGDTYHRGSVLAIGDAVSTVNFLGGEGIRHGMQGANIAVPFVADYLRGHVQAFEKYEQAMKAHFAEPWQRTEKLSQRVYLEFGDRQIDLGVTYLSYLRYDDVLDLLFHYRFDRIYGGITPLLLKKVAQFSQQCRQWLRKLSPLEHHHHHH | 0.426 | | 15 | In | 0.724 | In | 0.5 | In |
| >09f4b1a451041aab3c4b21edc13c03cf5caf8472 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMILSAEQSFTLRHPHGQAAALAFVREPAAALAGVRFLRGLDSDGEQVWGELLVTVPLLGEVDLPFRSEIVRTPQGAELRPLTLTGERAWVAVSGQATAAEGGEMAFAFQFQAHLATPEAEGWGGAAFEKMVQAAAGRTLERVAKALPEGLAAGLPPA | 0.219 | | 43 | In | 0.748 | S | -0.54 | S |
| >790836b10341471acdd86c2243586ed75cc68d70 |  | |  |  |  |  |  |  |
| MPKVTVSIKVVPAVEDGRLHEVIDRAIEKISSWGMKYEVGPSNTTVEGEFEEIMDRVKELARYLEQFAKRFVLQLDIDYKAGGITIEEKVSKYR | 0.685 | | 98 | S | 0.722 | S | -0.76 | S |
| >c80c991b0298ae2f9fbc70b7d7fe9dec0650c6d4 |  | |  |  |  |  |  |  |
| MDFSIVKTQILNNRRTFRTPFKVSSMCFSSQNDLIALGSKTGEILLKRTSWKMIWKTNINMIQAVGTECKLDSSVSALHFSPDGRFLAAATSKGIIHLLDVETGKVRFSVKAASEKIAKLHWNCVREKPFISNLGEFTTRIKNVEAIEGAIELAETTPNISQEEIAFVYQRLDEDGSSFKHEDAHKESLERTLISTETFRESLQNTILLATDDMDSKIIVLVAGVFPYMEIDISDTLLQYNQSLLMLYDMHYSSAFGGVSFLATTYGPFLDCKQNELKPPGAEPKKDGQGCHTLLFNVKLNINSSLWDTALRYIRLLFGFNLYSISLETTKRNWEEQIDNLHSLFDTKTKAVKIGNVLLEMLLSGSTDAAGEAFLERGLGTDGLDKIELFATKHMPEVCRIARGQLSTSARNLCFQRCEFSTSLSRYAKFIQLKDDDSFLYDEDPPAYLSESNIWLNTLEEKINILDMKTRHLGIQCLTMMQELGHLVKWISMTKPFAKTMKVNALMKIKRMNIAKILLYIVRNFIPDPEAVKDIENRLFNLKELVSKQKKKDLEDKFDEVEYLYRLERIAEVERKKLIETFHEKFRFADLDDDDLTPLLFQELDHPIDIFTDSMMEQNDSSPFLEEDEGEPEQEEQKPDEEPEPEGEPQPACDLDRVGSFFEKELSQKALEVLPKCDETFDCVLNERGSRMNSIEIQKMGILRVLEDLAATLSSPQKIHCDKAGNQKKLEVSFIYEITSTPTHQGYQDAKISSVTPSYYKRHPFNQLSGMGRSIQVSVLQKNEFSSIVIVPTSDVLPEDENEVNDHVEKLKRCYEFEKIDVTVDKSSAENRPPGETDAMEVDSNELRIDVDLGPVVPEYDTLIELSQVHPLHHGELVLLGKFTSAQEGTGVMSQMMRSISSYPHEIPEDKDVFAKNSSEDGSSEIPIETLIIHPTIQLAAYLHDDGSKITIGDMKPEVPPIADYEEKTVRKTFRDYQRRRERYREDMGVMNMNDVQYDVLVQEAMDSGRDLTDNGESDEDEEDDDI | 0.42 | | 84 | In | 0.954 | In | -1.17 | S |
| >f17e488ca2158c0fa9e7b9e343e432ffc478a84e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMESPRNGSSRSFGPISWQQPSDWQETPPLAFNSTGVFKGVGDGQTLNQGIGVFFIYDAGVEEALVYGLSQDASLVDQGETEWKGFKGRYYKFEGNNLSFNVQVFPLGMRDLAFWNFVAGEPADEDLKTLEKILSSIDLNDRFKFSRWNSQDGTLKIYQNGNHFEGSFGEKTLEGIVIENSIFGWWKKSDSTGSVGPSRFWDGAFSGKFVEGKLQLLFSSSEDPFYSLEGTTVTFENVSGKFESSTVEEVSVTESLLCRSVYENTPFATDTAFTPFDKRIVMWSATKPFENSHIFKWEWYDPDGNLKETVYYIVAPTIETGYDYYDSVWGWMATDRFGEDAFGEWKVVVYADGKKLDESSFKLVQEPEMKTIETETFKLNVPAYTYYQLSEGVHYFILDIANLIFAEAHYETEPLNGEVYKTPNYEVNFIETSMPDYQTGQNFIYWVVQFPEKDGQYLYMSFYAPEDDFKRLESLFERILNSVELK | 0.421 | | 36 | In | 0.692 | S | -0.77 | S |
| >20885bb86a7c88e6e1431e34b97534d763060a5f |  | |  |  |  |  |  |  |
| MNLEYFHLIDRIAELRLADRSITVEARVPETSTIFEGHFPGYPLMPGVLLIETMAQSSGWLLIALMQFQRMPFLAAVKEAKMRTFVTPGETLSIDVSVVHEGSGFTVTEAKIKSGGKLACNATLTFRHVPLEHHHHHH | 0.743 | | 52 | S | 0.569 | S | -0.12 | S |
| >08d1814ae9711a1472abde7af370faff4772c21b |  | |  |  |  |  |  |  |
| GPGSMLYISSGLVGRKAMSGELSPEEDTSGAKVLLINMRSYQSDLLDQTQRSNVDHRRFFLDILQCNEDLHRPGVPSFDVIQLEKLKLSADHTHEDWLELAHLIKKEYHRYRGFVVESGSDNMVTTSTAVSFLLENLGKPVIFTGSLIPGHRIYTDMTRNIILALAFASCSQICEVCILFDEMLYRANRAIKMSLCSLRPFDSPHFPPIASMRGGVLIIHKVLLRPHPTGRLCIKAELSTKVLTLELGPGAPFEFFRAAIEYTSAPALILRCYGSGNGPTRRDFMKRLLAIAKDRDLVVVICTHNRYGVVALSEYEAGRQLMGAGAISAGDMTQEAAMVKLKYLLGLGMSPEQVRKYFAVDMRGEVSTPSAKL | 0.616 | | 28 | In | 0.967 | In | 1.24 | In |
| >2167374e6bbedae6b971b7171aa8165abc48cf5e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMCFRYGRGMTGVFDVAQALDGGITDMERAWAFVRGFAAAWDEPLTEDDGTPASELARAEATLGCSLPAVLREFYTLLGTRSGLLANQDPLLPPAEMFVHDECGGVLVFRSENQGCAFWGVRLRDLDQDDPPVLVQARHGWVPFLDRVSLACVELVLSEALFGGGGQLYNACELPADLLGAVPARFQRVALPDYPMWTGPEDFPVRWFSAPGQLLRQDGLGAHSWLHVRGRTRADLEAICETVPGRWALGYTESLDAEPLPF | 0.279 | | 26 | In | 0.57 | In | -0.94 | S |
| >04db8741edf1737fbd662d3521cecaf3d9e65612 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHACVDYSDIQPFDGKTLPRKSGYTTGVTNDWIYFNLRTGEIFNALGVNRDIKEGGQMNRTDWDLAFCGYVMRTNSGTSGIGRGGAADLGYGNYENWTSVAQLPSDLKWVEDNQEVYVTMSQNDWNHYLIENGLDFNSNPWFDPNNGPQKTTTNANPVLAQAMSFAGPPPVYTPSYHTYVVRTADGKHYFKIQIISWYDANVEIGDEGGRLSYYCDELQP | 0.252 | | 8 | S | 0.622 | S | 0.48 | In |
| >f63a82e5d22966a5b8cb9315c68a138b82dd10dd |  | |  |  |  |  |  |  |
| MARVTVEDCIDKVDNRFELVLLAGHRARQISQGAQITVDRDNDKNPVVALREIAEETLSPADLKEDLIHSLQKHVEVDEPEMASEFISHSSEAGGVLGTSSEEEGSSFDHMSEEELLAGIEGLVVPEKSDDY | 0.745 | | 99 | S | 0.867 | S | -3.8 | S |
| >5b26f8d675496a916ef9416bfc1b6d8f2a396839 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHRKTEKVVNNGIPWFDDRGEIVNAHGACIVEENGRYYLFGEYKSDKSNAFPGFSCYSSDDLVNWKFERVVLPMQSSGILGPDRVGERVKVMKCPSTGEYVMYMHADDMNYKDPHIGYATCSTIAGEYKLHGPLLYEGKPIRRWDMGTYQDTDGTGYLLLHGGIVYRLSKDYRTAEEKVVSGVGGSHGESPAMFKKDGTYFFLFSNLTSWEKNDNFYFTAPSVKGPWTRQGLFAPEGSLTYNSQTTFVFPLKCGEDTIPMFMGDRWSYPHQASAATYVWMPMQVDGTKLSIPEYWPSWDVDKLKPVNPLRKGKTVDLKKITFSKEADWKVEEGRISSNVKGSTLSIPFTGSCVAVMGETNCHSGYARMNILDKKGEKIYSSLVDFYSKANDHATRFKTPQLAEGEYTLVIEVTGISPTWTDKTKRIYGSDDCFVTITDIVKL | 0.346 | | 53 | In | 0.706 | In | 1.2 | In |
| >916d8978e82a18444f9661322ccad71607bd4299 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKLKELVKQFIPMNYWNTRRKASIIRQQGKVADFWAPILKAYYNGEIERYSLKPKKKLGTQKVIWQYWGQGIDKDELPEIIQICFDSVDRNKNDYQVIRLTDITISEYIDLPDFVWRKREYVQFTRTFFSDLLRVALLSTYGGVWLDATILLTGSIPAVYEKTDFFMYQRSDEEKNKKYWENVYAYYFGWEPNFKVRMLSSILFAQKESEIISTLTDLLLYFWKTQDSLPDYFCFQILFNELVANYRPAENCPIVNDCIPHIIQTKINGTYDDVSFEEALELSNIHKMTYFDAAAMIRLKMVLRLARNA | 0.152 | | 32 | In | 0.954 | In | 0.04 | In |
| >a11464a013961216fd19d02d5a25a67e9409f5a2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMFISCSGEKTILAVPEQGSAIIGGYWTPDSGRVKGPVQLKWEEGRVSSLCPYSDHRGRSKSSGEEDFAWQPYLLMPGFIDSHVHLALDSIDFYQCLENWHNPALMEKVIQDNLRRYLESGVVAVRDGGDLPGFAWSAKKRLEREEWQGPRVVSVREAVARQGMYGRFLGRGFSSLQDWHRIKEDFFRQGADQLKIVVTGIISFSQYRQVGTVQWSVEELKELTASAHARGILVMAHASGEEGISRVIEAGVDSIEHGYYMTSRHLRQMKAQGIAWVPTVAPIGNLLKYPTGRYSEQEIATLSEILKGHLSRIKEASDFGVRLGVGTDAGAYSVPHGSSFLDEMLWLREAGIPEEKVYCLATQENARICGLPEYGKLEVGTPLNCLQLKEL | 0.482 | | 37 | In | 0.668 | S | 0.65 | In |
| >583ae8c060481b03a97f89d6cfcddbfd40da84ac |  | |  |  |  |  |  |  |
| MPALSPAKKGTDKGKTGKKTGKQEQNAQDYIPPPPPMPGDEAFAMPIREIVKPDNQLWLSEADLNEEVAKMLTANNPAAPKNIVRFNMKDKVFKLEPMVEQTVVHYATDGWLLHKSSDEAKRQMDMEKMEQEASARFQADIDRASHEHKDHGDVEPPDDSRQLRNQFNFSERAAQTLNYPLRDRETFTEPPPTATVSGACTQWEIYDEYIKDLERQRIDEAMKSKGGKKAAAAARAAGAAHRQRNEHVPTLQSPTLMHSLGTLDRMVNQNMYEEVAMDFKYWDDASDAFRPGEGSLLPLWRFVSDKSKRRQVTSVCWNPLYDDMFAVGYGSYEFLKQASGLINIYSLKNPSHPEYTFHTESGVMCVHFHPEFANLLAVGCYDGSVLVYDVRLKKDEPIYQASVRTGKLNDPVWQIYWQPDDAQKSLQFVSISSDGAVNLWTLTKSELIPECLMKLRVVRAGETREEEDPNASGAAGGCCMDFCKMPGQESIYLVGTEEGAIHRCSKAYSSQYLSTYVSHHLAVYAVHWNNIHPSMFLSASCRLDHQAVGLCHDPKRAVMNFDLNDSIGDVSWAALQPTVFAAVTDDGRVHVFDLAQNKLLPLCSQKVVKKAKLTKLVFNPKHPIVLVGDDKGCVTSLKLSPNLRITSKPEKGQKFEDLEVAKLDGVVEIARKSDADLAKNAAH | 0.502 | | 88 | In | 0.895 | In | 0.34 | In |
| >1e76f6fe52b6dab4dd70acc4f9bc84dd4939ad64 |  | |  |  |  |  |  |  |
| VGTNLPTEVGQILSAPTSIDYNYPTTGVWDASYDICLDSTPKTTGVNQQEIMIWFNHQGSIQPVGSPVGNTTIEGKNFVVWDGSNGMNNAMAYVATEPIEVWSFDVMSFVDHTATMEPITDSWYLTSIRAGLEPWSDGVGLGVDSFSAKVN | 0.517 | | 59 | In | 0.634 | In | -0.34 | S |
| >d9838075b5ad2f80daa9e2b8832cc2a55492069e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLMEKYHDFEPNFNIVEIFESLQGEGFNTGMPSVFVRFGKCNLDCPWCDTPYNNFKRWSVSQILEKVRSFSSKNIIITGGEPTIVPKIEYLLEQFKSDGYFLAIETNGLKAIPAQIDYIATSPKSLYAHKYEKRCIPFANEVRIVMDSNMPSFCELIEQKIKAKNYYLSPCEIDGKMNLLETITLLGQLNQRSNKPKWQLSLQTHKLIGIE | 0.138 | | 73 | In | 0.619 | In | 1.14 | In |
| >98bb571b9fdb46fffe2709229cf3f0fe814546b2 |  | |  |  |  |  |  |  |
| MHIINNSNSRHWHRCNTGEFSMSELNDLLTTRELQRWRLILGEAAETTLCGLDDNARQIDHALEWLYGRDPERLQRGERSSGLGGSNLTTPEWINSIHTLFPQQVIERLESDAVLRYGIEDVVTNLDVLERMQPSESLLRAVLHTKHLMNPEVLAAARRIVRQVVEEIMARLAKEVRQAFSGVRDRRRRSFIPLARNFDFKSTLRANLQHWHPQHGKLYIEFPRFNSRIKRQSEQWQLVLLVDQSGSMVDSVIHSAVMAACLWQLPGIRTHLVAFDTSVVDLTADVADPVELLMKVQLGGGTNIASAMEYGRQLIEQPAKSVIILVSDFYEGGSSSLLTHQVKKCVQSGIKVLGLAALDSTATPCYDRDTAQALVNVGAQIAAMTPGELASWLAENLQSLEHHHHHH | 0.398 | | 24 | In | 0.727 | In | 0.19 | In |
| >c6279c11fc7f7847e8be5b54c7ab43d59089f12d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMASLPGIDEHTTSEELITGDNEWHKLVIPKGSDWQIDLKAEGKLIVKVNSGIVEIFGTELAVDDEYTFQNWKFPIYAVEETELLWKCPDLTTNTITVKPNHTMKYIYNLHFMLEKIRMSNFEGPRVVIVGGSQTGKTSLSRTLCSYALKFNAYQPLYINLDPQQPIFTVPGCISATPISDILDAQLPTWGQSLTSGATLLHNKQPMVKNFGLERINENKDLYLECISQLGQVVGQRLHLDPQVRRSGCIVDTPSISQLDENLAELHHIIEKLNVNIMLVLCSETDPLWEKVKKTFGPELGNNNIFFIPKLDGVSAVDDVYKRSLQRTSIREYFYGSLDTALSPYAIGVDYEDLTIWKPSNVFDNEVGRVELFPVTITPSNLQHAIIAITFAERRADQATVIKSPILGFALITEVNEKRRKLRVLLPVPGRLPSKAMILTSYRYLE | 0.445 | | 55 | In | 0.802 | In | 0.33 | In |
| >4167debadd2fac80bec06979427bac65d216ae0c |  | |  |  |  |  |  |  |
| YYNPVRYPERTKERRDLVLRLLMQQNMLTSQQYEQAVSRPLDTQSKPRIASRQPAYFQQLNIELKEKVGDRFKAETGL | 0.557 | | 56 | S | 0.591 | In | 0.05 | In |
| >8dc2665ecf21bd82c9f5ab62af2d6384969b00ab |  | |  |  |  |  |  |  |
| MAHHHHHHMNCRKRGESVTLMESLRTAASYDQVVKKRAGDMKSKETPFRFFSNYVKKCLIQCALDHIKVTTGRRDAIVLDLASGRGGDLGKWLHCQSPELSFATAKLPRERLTKAAYVECYDVSPECIAEAESRYKKIAPDTVCRCSFTVKDCFSEDFLLRELPLTQHFGKFDIVSIQFAFHYACDTLERIDMLLGAIARALAPEGVFIATTVDEEVLAKRVAANRMESKGLFSIHFDSEPQFEYDRLVVGTRYRFNLDGFVDCDEYVVPLDYVRDCAKQHGLEEMVKFSKHFGSFYETYKDDPSKNKERYLVGGEMELATLYRSLCFRKAS | 0.298 | | 81 | In | 0.982 | In | -0.13 | S |
| >9b8408d3d797d8081bd4783bcf0a7139c40fddd2 |  | |  |  |  |  |  |  |
| MIVAAPEQYSRDRDWQQAIAAGELTLALQPQMGLRNRQLRGFEVQLRWQHPQQGTLLASQLMEHLEQSQHRETVGRWFLDQAGQLLSQWRNSAQFSGLFALSLLPQQWKSPSFIHDLRSLLETYQIPPEQLELDLPAQSLAESAAESWDWVYAVRDLGIGIGLADFGSRSIGLYDLRNLPLTTLKLERRFVRGLPDDANDRAIVRGVVAMSQALKVRIVARGVDTVDQAKFLARAECDAMQGLAYSAPLEHHHHHH | 0.267 | | 18 | In | 0.672 | In | -0.17 | S |
| >8f9731cdc28435bc4bc58a7408450201796c9939 |  | |  |  |  |  |  |  |
| MTTNGFDPFEWRSFYFPGMSREEAHKLLGEPQVSIGTFLMRDSSRPGEYSLTVREADEGNAVCHYLIERGEPKEDGTAAAGVKIANQSFPDIPALLNHFKMRVLTEASLLAAYKKPIIEVVVGTFKFTGERETDLPFEQGERLEILSKTNQDWWEARNALGTTGLVPANYVQIQMEFHNDRTSKGASQSSIGSSGGGAERFSSASTSSDNIELQPRLPAKAKVTFDRVPNAYDPTQLRVKKGQTVLVTQKMSNGMYKAELDGQIGSVPHTYLRFTAVSE | 0.698 | | 51 | S | 0.897 | In | 0.96 | In |
| >d96a5f211769e75b8883c0912350f8351784bcea |  | |  |  |  |  |  |  |
| MSFEEQQDFARQVADLNKYGQALNRCESVDEVVSLTLEAMSLLFEFSYSTFVEVRDDELRVVHSTNPNLVQGEPPSDLARRAQEAGETLVEQGADAAVTADSDVTGALAVPSRMGDEVTAVLVTRSQTVEEFGDEYVRPMEILATHAATAISNIRSRERLERAHRDLERRKEMIEMYDRLLRHDLGNDLQVIAGFADVVAGQVDGQTEEYAGKIQRAAESAADLIQRVGDLVSTLEAQDNPEPQDLESVLGDTVRDVRDNYGSLTVDFAQSDFEYQVYGGDLLDSVFTNIMSNAAVHNEGDVHMRVHPAEVSPDEVTVCFADDGDGVSPDLREDIFQMGVKGQESSGTGFGLGFVRALTESYGGSVSVGESDAGGAEFRVTLERI | 0.44 | | 70 | In | 0.604 | S | -2.69 | S |
| >79c86ca0457d3fc38cbd442e0faed74d02cc6d3d |  | |  |  |  |  |  |  |
| GPGSMVQMNQNEEDSIQPESNKDRMVHARAQSVATGGQHRPSPHEKDADGAADAPPCRAAGTRSRSPPLPSAQQRGCTRVESASCTYNLREEIGRGEYGCVFLADATPHQLQPQPPLQHSQSASFLPSPTSGVVVGLGSKGRSEPRNTGGRPSRMVLKRMDNTSIEDGLQAATLREIMVLDEVSAGTSNRDRVERDAFRCGRAVFRPTTAAQSNTHVQESLPSSFVDQNRYFSSGAADDEWDDAASSSSGPLRKGAFDALSAQQRRRISRGRQHLIGLRDAILRPREQLAYVVMDYCEGGDLWHFMRDLKVSMRSSSGKFGDIMSTRVFRRWSVELILALGFLHSHNIAHRDLKPQNLMLAKRTDAILSSFFAVDSANSSELCDIAGAPAGELYTLKVGDFGLSRLEGIPYKKYVHEAVTLWYRSPDVLLGNTNYTYSADAWSLGCILVEMASGSVLFKGKDEADELRHIFTRGCRPSPSIFPRMRDYHYCERYAEVLNRYQEADTENMTSEELMQMQLERISRHLRAFLRDRHALELLGDAGVDLVARLLILDPEHRLTVLDAMNHRFFTNAYAEVYGADG | 0.563 | | 35 | In | 0.944 | In | 1.04 | In |
| >a205a2f7448952f3fba5c4f68d40e16634f3476c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTKKILTTPIKDEDLADIKAGDIIYLNGHIVTCRDVAHRRLIEGGRELPVDVRGGAILHAGPIVRPIKGEDDKFEMVSVGPTTSMRMEKFEKEFIAQTGVKLIVGKGGMGKGTEEGCAEHKALHCVFPAGCAVVAAVCVEEIEDAQWRDLGMPETLWVCRVKEFGPLIVSIDTHGNNLFEQNKIIFNQRKEIVADEICQNVSFIK | 0.211 | | 97 | In | 0.778 | S | -0.43 | S |
| >58cca3f1ef2e50a304dec3140ac39260284e2706 |  | |  |  |  |  |  |  |
| MNPIIEAVKQNLDLLRNIPLKIAFYNALKKTIILRQIPVGSRINEKEFSIALNISRTPIRYALGLLSEEHLVEHIPKKGIIVKGVSIKDACEIFEIRKALETLATVQAMHLMTEEDFKVMHNLLEDCETFIAEDDTNRILDNFNAFNNLIYSYSQMVRLKEIVTELQAYLVYFRKISISSVERRKRALSEHWMIYRGMKNKDHEQITLITHEHLNSSLEFILKEMRPEQND | 0.232 | | 81 | In | 0.628 | S | -0.12 | S |
| >bad2f6e1ad1599a8b0d6ebb83a62357275c0cc83 |  | |  |  |  |  |  |  |
| MHKDELIQLHQLLVYMRKDLARKFGIELEESFKEYDDLNIRPHHIHRTKSEHTFAIFLLSGTIGKILSEKGNVPRSVASRLNDTGEKLSKEIARKKRLEHHHHHH | 0.383 | | 91 | S | 0.582 | S | 0.55 | In |
| >353e23c8f05bd590e0b0e219a5d23757607278f4 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSRIDIAELNDFLYGLRKSNAEAKTMINQIKDAAMDYAQDNSLKGEAVTTSKRYFSSAYTSICQSIIEALDESEERLAQYIREFGSQVDSSPSARIDAEILQEAMAKVSQLQRKEEDLHRQLTAPNTKPDMQQVYAVKSRSVHTQLLKAIEQENILEKYLAFEQSHGPFFNALAELIRA | 0.219 | | 82 | In | 0.543 | S | -0.78 | S |
| >dc59ff4d3ac518d1ae26e110e194a86df6cebbc8 |  | |  |  |  |  |  |  |
| MIIGGGAAAGVCWKMGVFGQQETSGDSVYVTKISDLTGQTSGVSNRYAGVVEPQETVSVELESGRTVKEVQVKTGDQVKKGQLLFEYDLSSIQESLEEAQLDLDRLKNEASSLNERIATLEKEKKKASQDNQLSYTIEIETNKMNLKKNEYSQKSKQAEIDKLQSATGNTEVRSSIDGVIQKIDTSKLTTEDNSSVDDTDSGDSSSDDSSSGGSNAFITILSTGAYRIKGTVNELNVNSIVEGEPVIIRSRVDDSQTWKGTMGTIDKDSASSGNNNNSFYGMTDSSDSQTSTSTYPFYVNLDSSDGLMLGQHVYIEMDEGQESQKTGIWLSEVYIVDADTDSPYVWAADKKGKLEKRSVILGQHDEELGEYEIADGLSKDDCIAYPSDILEEGMSTTTNIEDAMDTGNIDMQPLDDSSFSEDPLPDTADTEGVSEYEMSDDGTVVDDPEAVDDSIVDDSSSDESMNMTDGSSDSGEILDDNLMPVEEDTEEAQ | 0.529 | | 94 | In | 0.673 | In | -2.3 | S |
| >df7d3a389166d851b9a8697c486e9a0e1bc70d06 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHDAEELQGKLVITFAKPTKGLKVAICSMENTKYPILVESPNVNGVLKVSLNIGNYYIKPSDDSSDMYSDIGIQVRPDKTTTVTYGESRQVIGRE | 0.11 | | 97 | S | 0.67 | S | 1.09 | In |
| >5c3dae888819e65c6885f4b4c3928cfc45a1edeb |  | |  |  |  |  |  |  |
| MKSYEATEILSDLASQQWGLFTSAQAKDSGVDLPSLRRLEKRGVFTRVRHGVYASTTTVLSTELELKAQWLSLQPNLMAAERISDPSLVADAVVSHTTAAEVWEIGDLWPDGIHFTVNRRRRSRQTDVQFHRADLADSDWVVHPASGLPITTVPRTILDLAQSGHEPDHLLHLVADAGRKYLLTEQELLDSFSGHEDSFGLDQGDRSGLKELVDECFIDTKTAQQTRLLVEEAMRPLQEQLEAIVKPLTQSLSWKNAMQAPLQQHLAQLISPIPSAMQVPEMTVFSELAETMKKTASLPNISKNMWSEIYPPETLSSVLSTSLPRTQVSPPEKQRESTETNESNSEAKKDARPNRQRFEEGSENTQQEPQ | 476 | | 64 | In | 0.558 | In | -0.46 | S |
| >cdab1bfd32299c3728aa7049b982becba0de2591 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHYTVETYPNPKRGGYKECGLRSSGLVCDPYETLSESERYRINNQLINFVTKTEEGGNTFCSKKGTDAMFVIMNKASQEFADNLRKHWSTIDTQCGRFGLLVLSLDDRQIFGSFDERSPINMAQLQAIIATEENHIKTGAYTTAVTNILKEVAASMTPQKGVTTTTPASSTKY | 0.224 | | 54 | In | 0.525 | In | 1.03 | In |
| >41299291ff22e5602a9a048057b49e44f36abc3b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEEEELSKLLANVKIDPSLTSRISQIDSFKLSELMVLKTDIETQLEAYFSVLEQQGIGMDSALVTPDGYPRSDVDVLQVTMIRKNVNMLKNDLNHLLQRSHVLLNQHFDNMNVKSNQDARRNNDDQAIQYTIPFAFISEVVPGSPSDKADIKVDDKLISIGNVHAANHSKLQNIQMVVMKNEDRPLPVLLLREGQILKTSLTPSRNWNGRGLLGCRIQEL | 0.167 | | 69 | In | 0.706 | S | 0.42 | In |
| >926c8823fca53a237247fec3670f374c0ccab46f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDKMNTIGFFEIQSSDPARDIQFYKTVFGWKFTKEEFVPIEYYRIDTESIYGGLLKRTAALPLTGTGTNAFTCSMQVEDFDRTAEVILSSGGQVALPKFAIPGRCWQGYFLDPDNNTFGIFQVDSQAK | 0.142 | | 24 | In | 0.707 | S | -0.13 | S |
| >a8773035c1b7eaa0af9e90cb9a1402a47203f460 |  | |  |  |  |  |  |  |
| GMPLGELIEWVKSDDNQQRGEMVLLLHGHRETSDEALPDEALRTLGILTKELPLKKAAALVAEIHNLKKNALYKWGLENLD | 0.777 | | 97 | S | 0.697 | S | -1.2 | S |
| >5d592c8c38b20be87d3d45e3a7e1c362c1a8b356 |  | |  |  |  |  |  |  |
| MGKQESEKTVTGSDGSGRYERKALIDKLYETQELSREEWIRLIEGRTPELSEYLFEKARAVREREYGKAVYIRGLIECSNYCRNNCYYCGIRRGNQNAQRYRLTADEILSCCENGYSLGFRTFVLQGGEDPAMTDGWVADVIRRIKKEFPDCAVTLSLGEKSEAAYQCLFDAGADRYLLRHETADADHYGKLHPDGLSLAHRMECLRTLKRIGFQTGCGFMVGSPGQTPECLAKDMAFIRELNPQMVGIGPFIPQHDTPFRDERAGAFEETLWLLGLIRLMLPRVLLPATTALGTIHPKGRELGMLAGANVVMPNLSPLGVRKKYLLYDNKICTGDEAAESLNSLKESMKAIGYEVAVGRGDYRL | 0.339 | | 49 | In | 0.56 | In | 0.62 | In |
| >a9b5dbd7328d9f3570c5d2641c1ff135af07fbab |  | |  |  |  |  |  |  |
| MAHHHHHHMSTDPNGTRWSNSEKNFGKALLKKSGWTEGTGLGKEQDGVVNHIKVTRKDGVMGLGYQAGVQETWTTQSLGFADVLTRIKASTTAAISDSDDDGEASPSSSPTTNGEAKKIGMSRHYKMYARRNALKTELIHGGGSAETEVKRLEILGSAAMKRRRDADSGEDNDGAGQNCSQHTSSASTLKSPLLLRLMARSTKDEPKPTAGDMTPEQLITITKPHPRPPKCTDTPFLA | 0.361 | | 93 | S | 0.77 | In | 2.11 | In |
| >9cfd3106d2d596a10aa9b223fbb3189712f70c3a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNNEEIQSFLSNDPTIQDLRRYAKMMGINLKRTMRKKDIARALKKFAQKNNQYSSSVTVKSPSEILRPSKPVDARIPSSYSRDFVSIHPINPYWVYVMWDLSEWTARNLENSSSKVLVRVSDITNIIYDGKNAHRFREAEISVDAGNWYFQVDFPDADYIAEIGYYIDGHFKSVLKSRIARTPRNSPKFTDHEIWVDLKKGSRREEKASHEKFTFGKHAKSSGPSDNPSSDEFIKTISKSKSGR | 0.288 | | 54 | In | 0.892 | In | 2.01 | In |
| >6d0c8c42629596263b74bd6ed42e5beee4ec8221 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVDDGSTDGTATICDQYCARWPHLFRVIHQRNQGQGPARNAGITAAHGRYLGFVDADDWVEPTMYATLVATAERSHAQIVVCDVRKIYAATHRTTSLLSLPDATDHVAIATYLKYGLNNAYSGNKLYARSCWQKYRYQRMVYEDLDILLDMLSCCERVAYVQQPFYNYYKHAGSTTLDYTNPRLFDIMTAYQDAIEHAKVTYQDAVTYCVAKRILINLATPGFADYLAEFIELIRQLRPIFEASPSIMSDPAIKKICDYAGQLTLPRRFICEREDWAQSWHQYSRNFKTIIPVAKALPADLRQRSNHFKLDYWLLKTLFEQGGLLILGTVKLHRPFGRLRAGGDVLAFEGEHCLLVGAQPRSPLISELLQQLIVGSESLTELLTMVKAQPERWSAGTHKIRLVDIKDWLQ | 0.164 | | 20 | In | 0.74 | In | 0.1 | In |
| >881331ee493b7ee9edfc4af8c227eee45f053c7d |  | |  |  |  |  |  |  |
| MADSNLNVPVIIQATRLDTSVLPRNIFSQSYLLYVIAQGTDVGNVANKANEAGQGAYDAQVRNDEQDVILADHEQRISAAEATLVNHEERIRQAESTLQDHETRIAQNESDISSLDTRVQSLESQVSDHETRIDALEYATTRKKSEVVYSGVSVTIPTAPTNLVSLLKTLTPSSGSLAPFFDTVNNKMVVFNENKTLLFKLSIVGTWPSGTANRSMQLTFSGSVPDTLVSSRNAATTTDNILLATFFSVDKDGFLATNGSTLTIQSNGAAFTATTIKIIAEQ | 0.29 | | 27 | In | 0.9 | In | -0.03 | S |
| >3769f01586617ca64355acb69b907e1d862f2662 |  | |  |  |  |  |  |  |
| GPGSMHTHTPFTSFSSFSPPFVSAPLSSPIAHDLAHHGAGLLRQPQVLRMSGEFSLLQHLGVTVDKCDSSADLTPPTHSAKAAFRVWAPTQHPPSKCGTAEETCGVLEKKRKGAHPSYADPTGEVLLRRKNGVEVQYIVYNSKIPSVYGVNKQLAKKMEREREENSPLFKYPLAVGEGEAGQEEARRVLLQELRRCNQEQARMRKEEGLRERARRLAHERAVVQYKAGETAREAEDARRHKIMDGEAVSETAAKALTLREERRADANVDARVVASGWNGKEEDDRRRLAAAERTRQLAEENFRAAEQRRAERKAQEQEARERARVERMELQRQLAQERVKDLEGHRRNAEALRGAQDSARERRWRANSADVHLQAMPSWSLFDAVERRQRDEAMRAQQKRMEDTAVNVRLAAQKRADAQAERDRDRQYAAEYAKAELENFQREVEHARQRRQQERQELQDAAEATAKVRQAHADAARRREQSVVPLLFWPAAQSPGAEKAKIDANRRFREDLRRQAEQKRDERAQEEEAERARDRALVEYDTRLAREAVERERKEMREKAEHLRRTLEAQIAEKRKGAVGDRHACAAADVTHVPATEAMRLYRCPVTGELLPASAYDFGVQRRR | 0.602 | | 35 | S | 0.948 | In | 0.41 | In |
| >ae7b3cdb62dae4637a8edf3a4274fdc6e235ac9e |  | |  |  |  |  |  |  |
| MAHHHHHHMPSGPKNNKYTNRHSEEARLRDEERRIDSRAAREAAKEDARWSETDPKVLKKMDKKREMEQKQEAKATRDAEKREQLEEEEREMNVKVPKKVAQRQIQKDLAKMLADYDKERNALRGGQHGAVAKSEKREEAPLPSGNVNRERGVAPHPAADQESNTIKASGTVADVVAALEKGGNASGAAEIPDNRHIGKRAKMLYKAFHAEHLEQVKEEKPGLRRTQYNDIIWEMWQKSPTNPFVMRSEKIAHERLEAERRWMEGDSDGEDEEEEEFKNGGKCAAK | 0.566 | | 54 | In | 0.977 | In | 0.26 | In |
| >d37549b7107074a2b93c56e3f43d5af96143705f |  | |  |  |  |  |  |  |
| MTLSITDSAVNAAIAAISSESATAEEKIQMLIEIAQDSQKKAKNSQDLRNAMRLFYHAYQMCGDDYALLKARTKIGMAGILQISPDSTPQLLQQSKADYEEALEILQKHATAEEVAEAQMNLGLVLQSLVPYNLARITDSIQAYHEALRVFSWQDYPQEYAILYNNIAIAYLSMPMASEREYLRQGLAVQSFEVALKHINLIDHPREYAMLQNNLGNALQYLISSHPVENNLRAIAAYNEALKARNPRDTPLEYANTVSNKANALFNLPDHPEKPELGNPQNLLKAQAYYQEAWQIFTAHQQTEQAEIVAKALQDLQIEIQAISILN | 0.516 | | 66 | S | 0.622 | In | -0.85 | S |
| >947e38c29f50f8c07697abe0820b29bbf575d110 |  | |  |  |  |  |  |  |
| MAPETLAPDTTGLEVRLRLTDDWFTACDLGALLPGRGVAALLPDGGQVALFRDRDGGLYAIDNRDPFTGAAVLSRGLTGTHQGRPFVASPLLKQRFDLTTGECLDDAAMRVETYRVQAVRAVPAVNAVNPALEHHHHHH | 0.703 | | 34 | S | 0.68 | S | -0.45 | S |
| >09812542094d0a3cece7a1771899a2c9ad419d8b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMHPQEFADTWSRRALKATERDSYVQHWLDLCQLLHHEAPGADPDYKFERRVTKVGTKDKGFADVFKKAHFITEYKRPGSDLGAALQQATLYSRDLGNPPLLLTSDFQRIEINTAFTGTSPKSYLITLDDIAENRVVGGNDVPALQILHSALHQPYDLDPRLFRERITTDATRQVGLVARRLGEREGRTRAAHMMMRVVFALFAEDTGMLERGIVTRLLERARLHPEKTSSTSRTCSEP | 0.2 | | 44 | In | 0.579 | S | 0.36 | In |
| >aa6431c4368e9b75bfec94d2575352f2042e1a5c |  | |  |  |  |  |  |  |
| MSHFSTLRTKITDAEILKASLRDLGISVKTEADVRGYNGQRLRSDIVAVLDGEYDLGWSRNSDGSFDLIADLWGVAKKHNQTELINSINQKYAVNKTLAEVKQRGLQNANVKLVLQLEHHHHHH | 0.617 | | 68 | S | 0.597 | S | 0.75 | In |
| >c680c6ed8cb69847fa4a3350c1e493b8f7d78cc7 |  | |  |  |  |  |  |  |
| GPGSMAKSSSHVAQARTRANIHIGKRVPKKKKNAHDNTKHKVGPKPYALRISGHLHSTAKHNNNNNNNNNSSKNIKTSQSTQLIHTCFQENFSNIKHHPLSPRIPFSAFIHFAAFHPYFTSSHFFSFYLTFPARLRNVPNALTSLHFFPPYQTSGKVLWVLLIKGMAKKKKNNYKQTVGNINYNKGEDEKETNGGKAITKIMIRIIITTTTLNNYY | 0.74 | | 59 | In | 0.889 | In | 0.33 | In |
| >a2449b9d88e56c431eb6e29a39cca2f080024d35 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHQDLVLSEGQYYTDETQTTPYTGRYTEFYEDGMLKMELYLKDGRPEGTYVIYYPDGKIAEVRSYYHGIFHGEWRTYSDNGQLIGLASYKEGQKDGPWRIWSDKGNLLYEMFYTAGKKSGVWRSWDEEGNLLSEENQ | 0.136 | | 9 | S | 0.741 | S | -0.84 | S |
| >12f028f6ac1a6cb5b1a5b0cb15d3c18f6841f63f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLNTQITQGRICPKQANFEIKVMDQQQQEHQQMISATSNWVSNVIMKYNLCPFARKEVERGSIRYLVVEETKRKQVLAALIKECQFLDENPDMETSLVILARGFEGFYDYLDLLDSANDALLDNAYEGVYQLASFHPDYCFEDEPQDSPANFTNRSPYPTLHIIRESSMEQALASYHDPESIPLRNMAFANKKGSDFFIKLLSECHK | 0.161 | | 76 | In | 0.63 | S | -0.78 | S |
| >f14155ab78366e48a9d6f994a763c8b95e965067 |  | |  |  |  |  |  |  |
| MSLSNYIAGTLSFYVLRNPDLDRELINDYAPYSSSISIFEYHIAPNGDIANQLNDAAAIETTWQRRVTPLATITNLTSGGFSTEIVHQVLNNPTARTNLVNNIYDLVSTRGYGGVTIDFEQVSAADRDLFTGFLRQLRDRLQAGGYVLTIAVPAKTSDNIPWLRGYDYGGIGAVVNYMFIMAYDWHHAGSEPGPVAPITEIRRTIEFTIAQVPSRKIIIGVPLYGYDWIIPYQPGTVASAISNQNAIERAMRYQAPIQYSAEYQSPFFRYSDQQGRTHEVWFEDVRSMSRKMQIVREYRLQAIGAWQLTLALRRAHGFCGNFLRSEKCKKRHQSLGVFFLIKSRAAEEGHHHHHH | 0.337 | | 7 | In | 0.95 | In | 1.13 | In |
| >184bca9c810ca199248f197fffea187f8a45f26c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVLTKSHVKGTLDTSIYTTLRHAMIVNSDNLISNVQKLVDRADIERVLYEYAFHLDAADPEQMLPLFTADLHVAYGPNHGAVGAEAYLETLSNDKSGIASFFAATSHHVSNVVIDFTGADTATVRSVLYAYHKYNRERPDGIVMGQYHDEFVRTPEGWKIKRRELKHAGTENYHAKGAALNPIPRKSIQKA | 0.134 | | 65 | In | 0.584 | S | 0.31 | In |
| >84cbe3a98eafbf8ae278a1e4a49004e31c85a288 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRTGENLPDPWHFARPELAKAYLQAFDLKLSAARGLFARRRMGKTEFLRRDLMPEAVTQGYLTAYTNLWDNRTSPETALVTALTETLEPKGAAAFLAKLRIPVKKVKASAKLAGSVEGSLEAELGKPGADRTAALHEVLKQIDRAKKPLLLVIDEAQVLAGADHSDFAHALRAALDIRKERVKVIFAGSSETTLRAMFARASEPFYNWAPLEPFPLLGDEFVAFTVDLLNSMARKKLTLEQGRHAFDELHRTPEFFKRFIERYMLYQPQGEAAALAYTKSSVFSDEHSLAQWREMKPADRAILYLLARGESDLHSSATLERLGTMLGKPATRNTTGHALRRLLAATVITRLAMGDYRIEDEAFADWIRKRPEPAPDA | 0.229 | | 43 | In | 0.553 | In | 0.4 | In |
| >8dfbca8b75cb91f6d5272fd8e2cc7636b291a2f6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLFTDDNYLSDVERVLEKTPDWTKVTNKSVFITGASGMIGTFLIDVLMYQNKTRNANISIWAMGRTLSRLEERFTSYLEDPLFHIVIGDVTEEIQIAEACDYVLHCASNTHPKSYASDPIGTIMTNIAGTQHILDYAVKANSEKVLFLSTVEIYGENRGDLDKFTEDYCGYIDCNTLRAGYPEGKRASESLCQAYIQKYGIDVVIPRISRTFGPTMLLSDSKASSQFIMNAVHKENIVLKSAGTQLYSYAYVADIVSALLFLLVKGQKGEAYNVSNEHCDITLRTFAETLANVAGTKVIHGEATVQEKQGFSKATKALLDNQKIYALGWRPLYDSMEEPLKHTIKILEGSGN | 0.163 | | 49 | In | 0.596 | S | -0.11 | S |
| >5c9f5dad29f65af31e90dc3c2c391e096a8777f6 |  | |  |  |  |  |  |  |
| MNWKRFLIAAMTKKKYQFFLNDTKHPKEARERLWNSEIVPLLKKSSYWQELLKDQSSIVLNDFGITEYEDYQEGLLAAQHSTIQPFNGEELIFWSETSGTSGVRKFFPITDSFQKQFQRTMAPYIYSLTQRFPGFFKEKMLYLVAVDTHKTTPAGIPTGWISNFNYRHLPSFIKKFYAMPDEVFASHEAYNQWGPIYGLASDLSAVFAVTPMVIDAFYQRCIDGFKDYLPYLLGDKLLPSHLPPLKITRKRRRHLQALAKVDHLSFKQLWPSLEMAGCWTSGLCEYPAQQLQKLLGSEIKLVDGTYSATEGWLTVPVETNSVGGILHPGAHIVEFIPEGAAIEKENLLQCWELEVGKKYEVFLTTAMGFVRYRLKDIVKCTGYLNSSPKLEFCYKTQLLKLETCSITGKELQSAVQATLINLEPYWYFARNSVGNRIVLVTDDEAEISELPLKKLHEQLIHISPTYAHSVETEEVLPVTLLQLPKEKLLAGMHGQTKPKFISQEVIAER | 0.528 | | 61 | In | 0.556 | In | 0.5 | In |
| >5b1c1dc46f80bf78235411375b96d263965b9cf7 |  | |  |  |  |  |  |  |
| MKNVIGTGSALDRLKRIIPASVQPKFSTADEWRAWQEAEGRKRSEELDRMNQKSRTEKIFGRSGIQDLHRSCTFANYEVSGEGQRKAYTMAKSYAQNFGSGFASFVFSGGPGTGKNHLAAAIGNHLLAGGHSVLVVTIPDLMLRVRECYDGGQSEASLLDDLCKVDLLVLDEVGIQRGSSGEKVILNQVIDRRLSSMRPVGVLTNLNHEGLLDSLGARVIDRLQMDGGMWVNFDWESYRKNVSHLRIVKLEHHHHHH | 0.68 | | 42 | S | 0.801 | In | 1.59 | In |
| >d03ac5f7b91427a55209a3030438b4811d5670ca |  | |  |  |  |  |  |  |
| MAHHHHHHMHIHQTIPVTIVDPVTSAPSPALKHIEDRTLYAYRNMGFALTHFHPALVGADCHPVVIENMNQLRIYHRREYTYHLLLRRTYNVKTFQTALGIMADPNEPFTNVDELIDGRQLVYHHTGADQDIIKSFCRQLESPFAPATHLRLDAVAVSPHASALITSCDTLTDAFLLNFVRTAHYTYYLYQRTTNPRYLEAWGSVYGSPKLSLKRPLLLYIGVGPQEFTEGQMEESMRRSLQSLVAIATKRIEAPPNEPSAELMPASVRQLAEKYGVRLLQRWQMRYFMVRR | 0.218 | | 30 | In | 0.969 | In | 0.66 | In |
| >67e4e6ff4240cd5b8010f3777a668468bad2689d |  | |  |  |  |  |  |  |
| MKALFYLMLLASTLLASFKNSTYNNRDELVLETFGVDPSFLYDQNFLDMKNALVSDLKKDHLMRRYDEAYDFVPLLKEMIIKAEIPQEFLYLAMAESEFSVRAFSPKKASGLWQFMPKTAQIIGLRIDEFVDERRDPIRSTEAAITYLKNLHGMFGKWYLAAIAYNCGEGRLQKAIAQAGSDELSVLLDPDKKYLPRESRNYIRKILSISMMFHSVDMLKSSDYEHFLNRGATTTIATVKVKAGTHLYKVAEGAGMSLEELKQFNRHFKYSFTPPGKKEYSVYLPYDRLASFKQNYRPESHGTSEMFIVHSVQKGDTLASLAKRYGTTLQEIKIANDLKSAALSLNQRLIIPVLKSASNLKEYVTKQGDTVESISKRFNVSIENLKRLNNLQHNLLEAGVKLVLAH | 0.517 | | 46 | In | 0.882 | In | 1.21 | In |
| >f256cf83a86648b0050817026d4c8fe6ef24bbb8 |  | |  |  |  |  |  |  |
| MAHHHHHHMKRSFRSIKTLRVNYFMKNKRIYHSSSNNTYDEKEKRFFNEQDNEWWYDDDFDNENNTQENKTCIKTRWKNIFDEIIGKNIYSLHDYNKKRFDFIFKNYEFLYYKNIKDHMNKKEINILDIGCGGGILCEYIKKNIFYFLLKNVDNVDLIKDIQINIDGIDVSEKLINVAIKRQQINRDTYKHLHINLNYMNCDLNEYVNIHNNNKLKKKYDIIISSEVIEHVPNNKKNIFVSYINKLCTKNTLVVFTTINKNYLAYLYTIMLGEKIFRMMKKGTHDYDKFIDNKQLDKLCRDYNLYNIKTEHVLYLPFFRNYFQTYKLNLLYLSSFIYSGNNL | 0.256 | | 36 | In | 0.976 | In | 1.17 | In |
| >1f1d79c21413aae287545b373eb01a8da9a0a121 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMQSYELCCDMIDVVIDVSCIYGLKEDGSGSAYDKESMAIIKLNNTTVLYLKEVTKFLALVCILREESFERKGLIDYNFHCFRKAIHEVFEVGVTSHRSCGHQTSASSLKALTHNGTPRNAI | 0.517 | | 92 | S | 0.566 | S | 0.01 | In |
| >4163210b8561a4d3cf327bd90ba33c7d8a3e1d7c |  | |  |  |  |  |  |  |
| METLNDIKKILINVGLYQGFDLTDPKVSEEVNHETANMKWIKDYTSDGNWDNEFKEDLKNFLDYMEVCQLALNDKNFKIASNSLFMAMIYAGNLSLIFDSIKTDISTLLSAEYKKNSFSWPSLDE | 0.313 | | 86 | In | 0.577 | S | -1.15 | S |
| >c55f6f26272284bb48bc59229cecd7544b72ef04 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTRLSEILDQMTTVLNDLKTVMDAEQQQLSVGQINGSQLQRITEEKSSLLATLDYLEQQRRLAANAARSANDDIAERWQAITEKTQHLRDLNQHNGWLLEGQIERNQQALEVLKPHQEPTLYGADGQTSVSHRGGAAISI | 0.113 | | 50 | S | 0.639 | S | -0.92 | S |
| >afa355e6fb82818a2c45799f43fa015309e0185b |  | |  |  |  |  |  |  |
| MDTSLAHENARLRALLQTQQDTIRQMAEYNRLLSQRVAAYASEINRLKALVAKLQRMQFGKSSEKLRAKTERQIQEAQERISALQEEMAETLGEQYDPVLPSALRQSSARKPLPASLPRETRVIRPEEECCPACGGELSSLGCDVSEQLELISSAFKVIETQRPKQACCRCDHIVQAPVPSKPIARSYAGAGLLAHVVTGKYADHLPLYRQSEIYRRQGVELSRATLGRWTGAVAELLEPLYDVLRQYVLMPGKVHADDIPVPVQEPGSGKTRTARLWVYVRDDRNAGSQMPPAVWFAYSPDRKGIHPQNHLAGYSGVLQADAYGGYLIRIRQNNGSRVYGSCPEKNPRCACKSAHLHHHGSPAAYR | 0.307 | | 49 | In | 0.845 | In | 1.74 | In |
| >4d28e3c82b06f664f054b3731e8aa02845e5759b |  | |  |  |  |  |  |  |
| MNPANDADIFDVLTHLERLFGDREKLSELTPNEAIEIFDRLSRINGMLIREASRQKEQTKQPVVLTEITPQEGKQEERPSPAGFDLQKIVSTLDFFRFRRELFQDDDKLMRDISAHLGLLSSAAEAMIYLHQRMQWEAEDPVVNDFAEVVSDFFRRRN | 0.268 | | 82 | S | 0.605 | S | -1.64 | S |
| >f7929ff44ed3ef2700bb30403322196f75cbac02 |  | |  |  |  |  |  |  |
| MSFNIENESVVCQLYHRTKHNNSVNVVCELSEKIGSPQLENGEWVVPNDVTGLNAKKSKVVKIRFHPSVSKLSSEGSALHQAACESALKYLDLLLDDSDWTRKTNHDDDLFGKQIDKIIEYLSEMDKIIEIDTSKIGLTLLHDEFFDEFVKLISCKSISSHLHTIISDDDDAHQSAQIVFEKDGRSRQIISIDVDAGYLKSSESGQECVFDVSKTCFTWVLPRHEDDFENSPPTVSHKLDCYMWIDEEKQEMPVYSPCASVFHHLDKLTASLSACGSPTFNGVLQRVPQVLAVDAIIGLDKSEAPHLHKFIQNITQAPLMVHTDFDNESLDCYSDSECKLTISPTDSIDSGVSLTSPTRQGSFDEDDGDDELTATSPGMRTRSRSESCSSLKGILKWPRRPNTMSRLAAKPYLIRSYSECHHDESSFPPLIPLRFSEDDEDAFHETDDSSSDCCVLPAAPRKKSVSFSERIEQTRLFNSNTSINAQKRKNLKKNEKKKKRENSLASSIESIHEETGRISPAARHQTV | 0.327 | | 95 | In | 0.985 | In | -0.16 | S |
| >c01906f2533b0cad0e5f31e909c0bd97cb56c998 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRTKFSKKKRIQPESLKRYIAEVKGGIQYVDEGKGPPVLFIHGALSNADTWRKIIPLISKECRCIAIDLPIGGHYLPVADHVCLTPTGIAELIREFIEYLELDNVTIVSNDTGGAYVQVFASLFPGKINKLIFSNCEVLDIFPPSKFKYLTSAVKIPGFNFILSRVFMFKKILKSELIMGLLSFKITTDELYHLYLHNFIQDKRIRANFASAARAWSPVYTLAAAEKLKNFTNPVLILWGNKDVELFPLKMGEALKGVFPDAVLVEIDQARTYIQEDQPEQTAKSILRFIAQ | 0.149 | | 67 | In | 0.823 | In | 1.13 | In |
| >408e28c8ef0bd0c2b92be81e0693fe682746f919 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNTRFYNMRASLSRTEKDILQGYVILQSFLEELYDEGRLVVLPITMEIVKEAGRIAVKYGLLSNDSLIAATCKHYSINTIATREYRG | 0.093 | | 37 | In | 0.62 | S | 0.51 | In |
| >c844a5fea3d579e0d991f77b6f03055da06ff768 |  | |  |  |  |  |  |  |
| MTYEKLYELRQTLRPTTKDGLYTDNEKNREILTVRWSGNTENPKNFSAVAIGINPSKANDERSDKTLTQLARFLDMYGFTNFKMLNIFSSYSTQQTGIRANTQTDFSKFKGCLEDADMIILAWGTDRGAYKDEKNRILEFLKAEKFMEKVFCISETGNSSDTRHPSRISYSYQLVQFEESA | 0.24 | | 18 | In | 0.707 | In | 0.81 | In |
| >da2f79cf05275d232e2bee428367ab8c39f2ea2b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHGESMYPTLDDKDYLILNRISYKVGKPEKGDIVVFKTNLVDGETGKKKDLIKRVIATEGDRIKISNSKVYVNGKLLNEPYIHNNYTSGDIDTVVPKGKLFAMGDNRENSNDSRFPDVGMVDEDEVLGKVMVRLLPLDNIGKVD | 0.144 | | 98 | S | 0.797 | S | 0.93 | In |
| >e322f7f3e735f24a9e9d71769449af1318583593 |  | |  |  |  |  |  |  |
| MAHHHHHHMSSKKVNNVINLLINEIKVKEKSENSNESASQKGIEIAKSFLNITCSDEKFINDNNKCIKKERIEPNELKNEVNIEGDQVKQNEQNHDDDDVINENEKAVLEFYDEKIDNYDEEYVNKKYRFGTKSCDSSLCCCGCFIPVCYQSQRHEYYVNQYRALYAINIRIDEDTIIDEHEINSKRYEENDKDHGNNENKQNNESDKSLKYHAVFCINCNNHIAYFEIQERIFHFFDVLPD | 0.34 | | 99 | In | 0.781 | In | -1.23 | S |
| >b5eacbc88b4424c4414fb9957ec4050cec71ca9e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIRLGIIGLGTMGKHILAGALAHPSFDVLSIFDTRIQHLTAAHLSGEQYQAIQLAASQWLDSPEQGGFLREVFSHFVFIHQRMFGPQSLLSSEVDYSKPLKSETSVKAHYVSAAPTKLPMSLTGRVDSSLEEGVQWTLYLKPESNKPEQQHSDSQRNLRAIRFQNWDSLLIGDDNGQWQSISVHNQGSVETQLNEVEKMFRGESHRLASFAEALAVQQVVEATLGHKIN | 0.252 | | 56 | In | 0.621 | S | 0.5 | In |
| >c7edbbd59ccbf07793f10304e16011b48680a3d2 |  | |  |  |  |  |  |  |
| MSKSNKKSKPKYTLENLQQIPGVLAFMICKGNTIAHSTFLEAENPRQIAYNAMRMATRTQGTELRDLKVHTIQVQYDDFQIEMFQIGGHFCILKKRVDTD | 0.826 | | 50 | In | 0.781 | In | 0.62 | In |
| >7c2fe41cadff26dd7068d336068d69d8e5093847 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLQYIDNRINYNYSLCQQCGICEAVCPKQAISFKLLKNGIHKVVIDDEKCIRCLRCVKSCPANKKEGYDGYFNNFSIKKYFLGYNKDNKIRRESSSGGVCKTLIIESLKNNLADGVYTLRKTGRYPYAEGEFYTKENIPRYDDIPNSVYHSVLACREVKKIQRCERLIVIGTSCQLRAMNTILKGKANEIIRICIFCKQQKTLDSTRFLAKIMGMEISENLNFSIRYRGNGWPGIVRVNESELSWNRAAQIPFGRRLWTIPGCNVCGDSFGTNVGADITLMDPWKIRSENDLGETLVIVHTDKGLNLLNNILSLRSEQKAYKEVALALDLKDIWRKQQLVPFFRGENCTETVLKAGKAEQSQRKFLRSVVETLPRMPILFYRILCKISDRRNNILK | 0.192 | | 49 | In | 0.978 | In | 0.88 | In |
| >c03b9cc8cad905aa9170bdb998c1a107829742d2 |  | |  |  |  |  |  |  |
| MSLHGKRKEIYKYEAPWTVYAMNWSVRPDKRFRLALGSFVEEYNNKVQLVGLDEESSEFICRNTFDHPYPTTKLMWIPDTKGVYPDLLATSGDYLRVWRVGETETRLECLLNNNKNSDFCAPLTSFDWNEVDPYLLGTSSIDTTCTIWGLETGQVLGRVNLVSGHVKTQLIAHDKEVYDIAFSRAGGGRDMFASVGADGSVRMFDLRHLEHSTIIYEDPQHHPLLRLCWNKQDPNYLATMAMDGMEVVILDVRVPCTPVARLNNHRACVNGIAWAPHSSCHICTAADDHQALIWDIQQMPRAIEDPILAYTAEGEINNVQWASTQPDWIAICYNNCLEILRV | 0.404 | | 25 | In | 0.911 | In | -0.51 | S |
| >c3db4fc1c95ba76c54fb33948d0f29fa84d1fd3e |  | |  |  |  |  |  |  |
| MSLDMRIVLGEPGFRGNWREAMQSESIKRELVRLTDSLDLAIDVLKLALGRSQLLDTAFERANLIKGRIERVCDVDITGYSYWYDTSPRHFTLHITPLSVADKFHEQIEIKQGAWIFTSATLAVSGDFKHFTDRLGLKPKQQFSLPSPFDYEKQARLCVPRYLPEPNSPGLADKLVRMLAPVIEENDGRCFFLCTSHSMMRELGEKFREVLDLPVLMQGEMSKQKTLAEFMELGNALLVATGAFWEGIDVRGDALSCVIIDKLPFTAPDDPLLKARIEDCRLRGGEPFAEVQIPDAVITLKQGVGRLIRDQKDHGALIICDNRLVTRDYGGTFLGSLPPIPRTRDLERIKAFLKAEEGHHHHHH | 0.719 | | 60 | In | 0.563 | S | -0.04 | S |
| >e81763f86f31150e0831cd9645cd6048cb712d10 |  | |  |  |  |  |  |  |
| MAHHHHHHMGKKKKVGKERIDKYYKLAKTAGYRARSAFKLIQIAQKFNVFKNANILIDLCAAPGGWLQVAYKNMSKQSTIIGVDLVPIRKIDDNVITIKSDITTSDCIKKIKNIIKMDKADVILNDGAPNVGTTYSYDSFNQNVLVLNSIKIAYIFLKKNGIFITKVFRNEEYISLIWVLEKLFGDVKHIKPRSSREISSEIYLVGLNFLGKKVDKKLFDYTYIFSDQFKKNSNKSSLLETKQESYLDNNENYFSDEESNDEEKVGEKIDKKKKKGLSTILKEKKKKNRQGYDVGDDYRATDICTFIKSDNYVDLLIKNNKFTFDKNYKNNSDPMIKTIYECIYKNECTTKEIFFLCNDLKVLGKSDLYNLIKWRYKIKKSVLNQTSKKNNLDFDNHDVEQTTQELSDVKESSQIDDFNTIVDKNISENELDNTSDEATEKDEKDQVDEIEEFSAYIEKKKKKEQKKKEKKLKKELEKKKKSNRGHQLDFDENEIHFNKDILKLLNKQKFEDHLKILNNDQKDDLEIDHYEDTSSETEKLEHLNQLKNSDLDKLEYLVDLDYEKQKMKEKKLNEEKSNEKLSRRKRAMDFKNEELMKIQKMMELKNEQLLMEKKLREYLSDEDDDEDDDDDDDDDDDDDDKEQEPKQQSDKHGDHQYDNKKSNSDNDVDSLETTQDIFKENKHIKSMVDKIIRLRRSVKNEEEKSNVNHFFDQNIFSNIFSQLDEEDIDAEFDSHIKNKKNVQKKDDSDKDGSISNDDNESIKEIDEHNLPKIPLPDKLAKKEKKKKLKEKYGNNEVKMKNSSFSIVKTDENAQNLNNYFSNLVKDEDELAFIKCIGEKLIHKKSRMDLIDDSFNRYSYMEDESNLPDWFLEEEKKYRRPVIPIDKKILDEYKGKINKITKMPIKKVIEAKMRNRKREITKMKKLEAKIGKIEKNEDDPFLKQKAITNLLKKNKSDKKRDKSYIVCTGKGSKMAKKKKNKKGKTMVKYVDKRLKKDKKAKKRIEKKKKNISRTKYSKSKPFKFRRKI | 0.245 | | 100 | S | 0.96 | In | 1.03 | In |
| >e31c11a04715146015e9e5cae37bc1cc09e93a28 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKKIPKDTDAILNLLAVKIKYDIMDIAEFEKMTDVFYRASYYLCRAAAELGIQKLVFASSNHVTDVYEKDGRSLLGREITTSDYPLSKNLYGVLKLTSEQIGHLFYLENKLSVINLRIGTVVTDEMDTLHEKERTKKTLLSHPDLLSIFKAAIETNIRYGTYYAVSDNPGRPWSIESAVNELGFSPQINTAELLNEEENGA | 0.142 | | 69 | In | 0.684 | S | -0.31 | S |
| >feefd8fe881633426b59ebdb950aa3eebf2b6184 |  | |  |  |  |  |  |  |
| MTTITLVNEQNSTGNPFSAHMLCEQRAIQEITYELLQSQQHVSNKDIIAKLIEKLETEKDVVQLDIYRNALEAVLFQTPDDI | 0.301 | | 92 | S | 0.664 | S | -2.86 | S |
| >0d45dbdc6b9a2f6ec8c5b7a6e3c3fbf33ae2f354 |  | |  |  |  |  |  |  |
| MKGTKSGVTFDYLGKLNTSFMAVEIREVLDKAELKKFVQFNIDLYRNNPYHVPGLIDDEMMTLDKDRNPAFEFCEAIYFLAYREGRIVGRIAGMINHRANETWNQNNARFGFVDFINDNEVVDALFHAVSEWARSKGMDMLQGPMGFTDMDHEGMLIEGFDQLGTMATIYNYAYYPKQLERLGFIKDQDWKEYKIFVPTEIPEKHRRISEIVRQKYGLKTLKFRTRKEVMPYAHRIFRTLNKAYSQLYGFSELSEAQIDYYVNIYIPMVRLDFVTVIVREEDDEVIAFSITMPNLSRALKKAKGSLWPFGFVHLLKALKGRPRVVDLYLIGVLPEYQNKGVNALIFDNMIPIFQKNGVEYAESNPELETNMAVQMQWNYFERKHHKTRRAFIKRL | 0.513 | | 30 | In | 0.928 | In | 0.48 | In |
| >05d336d21028cf5a314df27c3ebfde3cb3facc58 |  | |  |  |  |  |  |  |
| MDSWKLHSLGKALYELEKLGPLLDDLLLPSQCGYSEGRGGSGQGSRPPLRIPILDVKWETERLLSYWSARLAVRLQLVPPRARSVAISAAWLQRHLIEIEPDPEFDQAAEQIIEQARIIDAMFTEDATPDEDMEGTCREIASACRRLGYEISKTTVHRWAREETISSKTMEDGRVIVSLQEVIGKLTACDNEEVVDSGTPNIVS | 0.647 | | 72 | S | 0.703 | S | -0.94 | S |
| >ef64e4e121d5d7e99f70ed956c471921881f9298 |  | |  |  |  |  |  |  |
| SGDSIKVTVNGKELALMKDPDYVSAWGTALYCLNASSSLHTGLNEVSVFSENPGGGPYGITLAAVCENSSLSPVRFWINEGNYALSYTNKKDRVTTAFEDTYPGKNATLYTMLVAGTEGEKDELYFDSASIGSDIGKSAQGKYFDLYSGSVSSENSESILLFERGEEGYIHPCIAVLV | 0.807 | | 79 | In | 0.789 | S | 0.43 | In |
| >fba504da3d5b52cc11539d61f0763c4f5d27bd59 |  | |  |  |  |  |  |  |
| MKKNYYIGACIALILSGPTFAQGEMHNTNEQIAEQSSVDLIAEIYHSDRYAETFVESEQFEQEESTSKEPILFVTPYDQLKDKLESWADLHGYVVKWNTQKTVQFDNAVAYEGDFEQVLTELASDINQIGIDINFKIFQKNKVIVVYSVR | 0.28 | | 90 | In | 0.65 | S | -2.18 | S |
| >e5b98ee9982383c6bf44a3f0ad6d3ab7a04aeb51 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNLDNLARIDLNLLVILQVLLEEQSVTRAAHRLHVSQSAVSKSLNRLRETLDDPLFQRTAHGLKPTAHADALRQQLPLVLQNLYKLTQPPNFHPATSNRQFSFSMVESAYETLIPYFIGPLLQQAPLIKLDSYVWTEKSMQDLQQGQIDFGIAGRDILPQTDVNIDKVPEGIESQILFNDHQVCLVRKNHPILQAVKDGRWDQAHYLNMSHVQVRCEGNDWWALDYHLANLGLHRNLSTTVPDFYGAASVCAHTDLIFTLPSSFANHAQKLYSLVSIPLPFEFMPMAYVFLWHERNNQEPGHQWFRNIIFSSVDKAIANQHISKPNN | 0.243 | | 39 | In | 0.914 | In | 0.38 | In |
| >a16a09f52f9a214778d10d0b84be211ac1f1757e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHAKEVALVSGAFRRSISVSDLEYLAKTGKARGLLKDALKFGRQNPETVSKLLNKKLELPIGLTSRLMTTRIGNVIINRISKIIYPLNVPNPSVSVPAFRAGVINGMQIGKGGLNAIHFLKAYPNETMTINLPALFGIMQKAESIAGLVKFFSDSPLDGLKGSKP | 0.11 | | 55 | S | 0.667 | S | 1.39 | In |
| >7f9abf77a859185212a61cbb2609d443f6106e83 |  | |  |  |  |  |  |  |
| MGHHHHHHSHRSTSHVRCQSALLGDASQLGYSGVRDPLEEAVCLFSDLKLCAGRTTTLFKAVRQGHLSLQRFLLSFVCLCPAPRGGAYRGRQASLSCGGLHPVRASRRLCLPAQAWTMVGTPPPASLPPCSLTSDCCASNERGSMGVGPSEPGMGYNLLVCHLLSLLEERSIRAGVTRFSRCHLSPFSLTRKGNSLTPCASRVR | 0.234 | | 64 | In | 0.776 | In | 1.91 | In |
| >081e35add3ac72bdafc369dae64f2fe89602878b |  | |  |  |  |  |  |  |
| HHPDALSWKNCISETGGSHIPGRDDSDSTIIYVGEKGAAQRRLHVYGDAGHGSAPYNKDSAIATIGEVARRIAAFEPEVSTDDIWHGFIDAFRFDPTTTAALRDGTGYEHLGDLAAFGHAISHLTIAQTVLRAGQAINVLPSHAWLDMDIRTLPGHDDAYVDDLLTQVLGDLAPHVTIEHLICEPATISPTDTPLYRTLAEVLHDSFPDTTVIPMIAPGGSDLRFARRMGGNGYGFAVHAPDRTLGHVHGQLHSHDEYLHLEDLRLTVAGYQQLVEKFL | 0.469 | | 34 | S | 0.569 | In | -1.35 | S |
| >16dcd31b610014db38a3320a59c580ec92079c76 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMSFSSRPVPEILKTSHLLCWETRLTSKTDKWPQSGHRPGATAKTTFPTLRPVPRRPSTWSRRSRRLHGMHLSRKRRWSCTTNFLNLSNWTRMTGPRPRQKAAVAEGAVRVEHRVLHKPRTHVGLQHNSPLLFQTKHTLISHTQLPKENPIKHSYTPHISHTHTHTHTHTHRSDVIKLQPLPVMAPWGLPAHPHEPASMAAGQASGGSHSDMELALEAYSFCSLERERTVYS | 0.639 | | 97 | In | 0.836 | In | 0.69 | In |
| >cd8d1ec07a408a98c75d038414a54c7ed9d42fbe |  | |  |  |  |  |  |  |
| MDNLENLIGDIQRFDAIISEWDESQRCVAVGLQRAIESLHKAALTNLVRSLKQDNISALYNAVDDEIVYAVLLYHNLVKPPLSERIKTALTEIRPSLQSHDSDVELVAIKPPDRIDVKLIGSCSNCASSTLTLTQLVEQTVKKYCPEISNIVAVNNSPNATLTPININSYWMGVANVNDIPDNHVLAVKLENQNIFLYRQGNNIICYRNACSHLGLPLDKGKVENDIITCASHQFRYDLKTAECLTVRDVSLQSYEVRVKGDKVYVKVEK | 0.641 | | 72 | S | 0.795 | In | 0.28 | In |
| >aab1b95309a6e4390edf72946e37ecb38007f0ff |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDFFMKRFEVSTEIGSLSVTYQKQKKVLVCLNGAGLLPSYENFSLILEKPPPTIGYLTIDFPNTGRSPIHDQAGKNLDNLADAVYEVLEELGISEYILCAHSWSGILACKLLEKPIKRQTLVAIEPTTKKVMFADFSENPYPEMEEQMRLIDECGPELYFKNLTQATFSPETNKKIWELMQEKGLELENQDPEFQISGEITEEDFEDVSIEAHIPVFVFCQPYREKEYRESEYWTSNTKLILGGNHHYLQWSESEKIAAIIRELLE | 0.241 | | 94 | In | 0.623 | In | -1.5 | S |
| >42df5d05562d1e995384f574242ebf5ed96cd42c |  | |  |  |  |  |  |  |
| MIYLFDKLERLVATVGTDDLLSWHFKVKNNDWDQASFEVPVDYDVEPFVYFGFFNYDPHQKEDVFKLFKVIDYNLEDSKFYKGLDKAESDLDTIAIIKDKRFRQSSADACIDGALEGTGYQVGKVEGITNVRTLSYYYISPRAALIKIVEAFNCEFNVRYTFINNKITSRYIDLKKRFGKPTGKQFEHGNNLLKVVYEESTDDIVTCLIGRGKGEEIQHEEAEPKDVEGHLPQEERRQGYGRRIEFTDVVWSVEKGDPIDKPAGQNFVALDSAREEYGLSQNGELKHRWGVFVNEEIEDKTELLKATWEELQRLSIPIRIYKAEILDIGPETWKGDSVAIIYDEVKIAFETRVDEIDIDKLNFNRSVVTLGDYSVVQNRESRSRKEAVQNMIDESLETITDLGMTFQEFLQGIEKRIETGKKEMEDNWRKVNLEFDNFKKKVEQEGLQFNTLKEQIKEVDERTDKELEEFRATLKNLALPEEAIKKITEAIKVDDIPSIKQSFDDLKNKVSETSETSRLNAEILGNNGKTRYNKNLLVGDPNRTKTYDEDYIEVEANDGGFKRGETYTISFSQTCELLKKVAVTLTQANNKGVKLVLTPTKAKMEAQTFEVAKDKQSIEVYPLSYTAVLTGDWYKSKQIDLNASEVQELALDMSYKDVVDGKGATITGAWSDSPQIILDGGN | 0.609 | | 91 | S | 0.628 | S | -1.09 | S |
| >e79afdbc1c4593d89d64eba01b5876cab78ca98c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKKHDLSVIGSFNMDMRSAYLDTELMLVIRSKDINKQLEESMVEYERVSRQVLEDGTYRDPYHVEPIELTKKRQRKIFLVQHLLGWARYLF | 0.089 | | 90 | In | 0.568 | In | -0.06 | S |
| >5810f1ba33d6c64839e8116eea1ca4b7aeacfebd |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRYAIMLIRSFEEADEIAGRVGPKKVSVVKADNREFLLALKEAYERGYAEPVLIGDERKIRKLAEEISFDITKFAVIDVRDPQESADKGVQLVESGETHFILRGYIDGPYLYRSLIWAASKRGFRRCVSGVALMQFPVLPKLIAVTDAGLTVAPDFRAKMEIIEDAVDLFSRFGYESPQVGLIAARRGLNDDLGSVSDAVRIREAYEKGELPGCRLMEGLSLADFLLGGEGFLDRFEEIDYSRIPDILIAPNLEYGNIACKIDNIAANDFFSGIRRHVIIVGGGMPAVIPSRSDSHETIITDIALGVLSS | 0.155 | | 73 | In | 0.644 | In | -0.26 | S |
| >85b8e0c5d8799c5eccfd9abd2ed9231ddc65d041 |  | |  |  |  |  |  |  |
| MGSGLVNGGDYFYNNLSFTVTRYNGIMATDSTQCVKKSRGRPKVFDRDAALDKAMKLFWQHGYEATSLADLVEATGAKAPTLYAEFTNKEGLFRAVLDRYIDRFAAKHEAQLFCEEKSVESALADYFAAIANCFTSKDTPAGCFMINNCTTLSPDSGDIANTLKSRHAMQERTLQQFLCQRQARGEIPTHCDVTHLAEFLNCIIQGMSISAREGASLEKLMQIAGTTLRLWPELVK | 0.541 | | 38 | In | 0.656 | S | 0.22 | In |
| >41967d4fb39a8e1d21ba6f7aaa11960551d917c4 |  | |  |  |  |  |  |  |
| PSPSRRLRPVRNMNLELAALNEQCHYIGRRLYKERRAPSPQERSVFEMRAALIAERDAVRDRQLDGMLAALAPLEKIAAPRTTSSRLAMVQYDVMQSNRRALLAVRENIDMTKMARYYARAQRRLQSLKESDAPPDKIRRLERMMQGYTNVLALEDMVKRTDDQLHRMGAPRLMDSIPTTPQERALSEQNERDDHQEAINNGY | 0.183 | | 90 | S | 0.801 | In | 0.82 | In |
| >fbde7e583328188fabb2ec8de660f69b4b3d78bf |  | |  |  |  |  |  |  |
| MGHHHHHHSHMGGCDPMDEAARGALDLLGRIGGELGVLGVGTGRTVMRFLREASARGVEPGVAVPSSFETAVELAGLGWSVGDPRVYRGVNVYVDGADEAEPGRGYMVKGGGGALLGEKILSSRSKLNIFIVGEDRLVGRLGEKTPVPVEVEPGFVSMVLASLEELGLNPRVRTSPGKRGPVVSDWGGVIVDLLTGPLEDPRGLESMLRNVPGVRETGLFLGLADYIVVGLSSCGYRVLGPYRGRAV | 0.656 | | 97 | S | 0.709 | S | 1.85 | In |
| >34cd13b7f5f383e3affe6b160783169d600e0ddd |  | |  |  |  |  |  |  |
| MNLESYKWERVYSIGDEMLIFGRGVTVPLALKDLGHGIKSDSIYFVDDEDVWPDHKDWPDYKDHVSNCGVFDIATSKIEWPKKIYFSVNKTQWFVWGVAY | 0.634 | | 60 | S | 0.656 | S | -0.83 | S |
| >4686d660166e66db9a5f9b5e0b89b3db760dc58d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIIIVGAGSHGLSLAYHLVKKGYSKKDITLVEWKRIGYGSSSRNAARYRYHFYSKENVEYAINAISYLKKQSKELEYNSLLLRTGYLWVINGEQEYSLFKKLDSFWSSYNIGGKFIECKDNYAYIKFEGQCYLAPQDGAFHHDYILYSYYYSIKDKVSTIYDKVVSLIKDDSKIKGVKLSSGKELYGDKVIVTAGAWSGEVLSSIGIEVPIFPEKKEIYITEPLRYFLEPLIIDSKLQIYFSQTLKGEIIGGIEDKREYKFEEFTISISNAIKFLKGIRELIKGIDGIGILRGWSGYYEMTPDSSQIMGYSNDWPEGLFIDAGYSGHGMMFAPYSGKIMADLIADNYKNKFIDIFSPSRFKLNKLINETLVI | 0.35 | | 28 | In | 0.522 | S | 1.37 | In |
| >2fce93825c8bbc2aceeac2786d7669db75acce1e |  | |  |  |  |  |  |  |
| MAHHHHHHMQRESVVLQDLVPDERKQQLQLQPRNTDTFSKPGRPLTEDEVLRLAQRYFISPAVAKEAYEVFGRYTAMEEQRRGRMNGSTMPYGRLTLTATKLPMMTLPEVTERCLSGNLEVPEEKDPAVAKEKEKKDGGENDGVTVWEPDTVSMKSTLCGEGKGQQQQQHQQKKEEEDKREGAQNNESEKESKEVMEERLGIEGLQQFFNDLGIRMSALEVSDMVHDLNDEPIDYVLRLRAMEAAAAESQAVAAGSSSAGQGQTRGSPLSAKAGSSRRRGNSKVDLSSGKETELSAPLVKDSSMEGVTFSQFLFILSHMRLEREESAEMKECEMRDLFHLLDTDGDGAITVRDIQTVVQRLIDEEVLADDRDIQQLSEMNTIELEAALMECDVDDDGYFTLEDMYGVLQP | 0.655 | | 82 | In | 0.734 | In | -1.75 | S |
| >95eaebade51007c6a56a2141015e16cf838e7f37 |  | |  |  |  |  |  |  |
| MSENESENTNVFSEFLYDIGDFFSGNDRKQEKQLQADLRAAQAADLEFHKNELEVSERQADANRSRLSALSSM | 0.722 | | 91 | S | 0.662 | In | -1.84 | S |
| >82f4dc715cd457aacdc95e5fea1ff311506484f2 |  | |  |  |  |  |  |  |
| MGHHHHHHSHLGKAATLDELLCTCIEMFDDNGELDNSYLPRIVLLMHRWYLSSTELAEKLLCMYRNATGESCNEFRLKICYFMRYWILKFPAEFNLDLGLIRMTEEFREVASQLGYEKHV | 0.361 | | 42 | In | 0.563 | S | -1.39 | S |
| >911b9b1fbd65b7cd5385fbdc6ba0460c03e602d5 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVNEKMKKSNKGDLQKEKLLSAARQLFAKKGYEASSTKEINHQAGASDGLLYYYFPGGKEQLLNEIIRQTTDSKASEFIIRFDKIVSIGCSTEETLVNIFLMMWNLLTKKENYQVLLIMIREQAAIDRKQMTWIWKLDSVIQRKIFDYLSDQFSTRMIHGNDPKTMADVISSIYESFIYCQLVLNNDTKFTDDSKERLIREIHLVLKG | 0.101 | | 68 | In | 0.604 | In | 0.54 | In |
| >199f125979d08ddc77a6790d139a2f8266fc99dc |  | |  |  |  |  |  |  |
| MYSNKSFQRRQRQQVAESRSEEKFSRSLVRLNAQSLLDSSGNNTTTKNVNSDVVIVVMEGRGSCEGHIGIALHDTCFPEIHLCEFVDSREYTTLKTMINVHEAFDIVIQNGNEERGSTKLLGEALMTAFPEASLQSISSKYFNSERGERQLQSLMNAEVSTVSEGCLRRTLALGALAVLLKYIHETRCVFFRVKSLRIKEMGVNDTCMIDFVSWESLEIVDADDASKARKFQMKQKRTLMSVLNHTVTTNGYRLLRSSVLQPSTDVYLIQSRQEAIEELIGKPQLKDKLRRTLSRAHELDRVIAMCIQTSTSWTVRESEAKINQIIKLMHTLKVIQGIRTLLHSAKMKSNILIEKTEFLKDPRFDQIMNILVEKVDDSLLDGKKNSLHLQNTKCYAIRHFVAVQLDLARQTYEEIIRNVEETGAREIAEYFHGNSSVRLSFSQSRGFHYTFVTRQAESVTIPRYFLDVFRNRTTVTFNSRKVIAYNDRLEQVVAEMFLASDVIVCDMIEEMQPMIPVLYYAMDALSSIDFLCGLATYSDLRDTCKPTFGPSFSISQGRHPILDWDDSEKTITNDTCLTRDRRFGIITGPNMAGKSTYLKQTAQLAIMAQIGCFIPANYASLPIFNRIFSRMGHNDELIRNKSAFASEMSDAAAIVQYADKNSLVVLDELARSTSTEEGIAITYAICEKVLKLQSYTFLATHFLDIAALANYSNAIDNYHFLPQTDENSTKKHKLLRGQYRGPLYGFELVELSTIPDEVIEHAQSLATELRANVEDTERDYDSERRRIKVYMNHRFRECAEYFMDTHGEKWKEEKEAIDKMKALRKYLVDELAKIDSQEQMCQ | 0.421 | | 44 | In | 0.994 | In | 0.03 | In |
| >46407bb8d5641f30fa2897dbfe5d59ee15ce8f13 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNEIKYAITRLLLSTERQGIHNLIGYMESKDFFKAPCSTQYHLAKEGGLAEHSLNVFNALNDICNGLQWVNTEEKRDSIIICSLLHDLGKMGQFGKLNYIPNLISDRKGGYVQSEKKPFTTNSNLLSVPHEIRSIQIASHFIELTEEENFAILYHNGMYSDLKYQLNGKERSLQMLLHFADMWASRVIEKK | 0.121 | | 50 | In | 0.559 | S | 0.83 | In |
| >6295e9dc94266e7b8256c66598d97395d0d021db |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTKGRKTTFDERVESVQYCIAHDHNYVETSEKYQVSYQQARNFTLKYEAYGVESLRDHRGKRKSQDNSKECCEEPYIKTGIYFVSGPNCTTLFM | 0.15 | | 93 | S | 0.57 | In | 0.59 | In |
| >2cfc5c47373bcd2b4f785b09ddcf4ddc7e4c0344 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRLTIVTPAGPDSKAGNRATALRWQNLLESANHQVEVVTQYEGQETDCLIALHAWRSAEAVKHYRQVWPGKPLIVVLTGTDIYRFQHEFPDITRASMDAADLLIGLHDLVAEDIPERYHDKLLCLRQSAPKPPVAGSARAEKDQFYVCVIGHLRDEKDSLRAAWACYHLPEDSRIVVSCAGKAHNEEWRLKALEESRSNPRFHYLGELDTPQLEHLMAVSNLMVISSIMEGGANVVSEACRAGLPILASDIPGNRGLLGDDYPGYFPVKDDEALARLMLRAETDAEFLAELRSKVTALASTFTPERELESLERALARCKKG | 0.285 | | 67 | In | 0.536 | In | -0.52 | S |
| >348d388052a14f44191e9537cb31670649380066 |  | |  |  |  |  |  |  |
| MAHHHHHHMSMAMTGFSRAAEDYPALITRAVLDAYAQYVVAGSHSSDALRPDGVVDAEAHDVPKSIEEALAPLEILYGKTALSAIGIALHGTEPVIRYVERAEADFSDDESVKTADDDVGCVHREAQRARSSGADAVSSTPRSNAVSQQGDQESAAAVSSQSAVQRARCLYQVGEHTLFSPYYCPCSAYAYQSIQRQEVWCCKHMLALQLALRIEATGVVQDNLSVRIVSPAEYEQLLLRSL | 0.259 | | 60 | In | 0.781 | In | -1.07 | S |
| >4239d7023bd6dec9fbcf268ed4b36589e3a65601 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQLKAAIEALIFASNGITLERLIKILEKDPEEIKRALEELKKEYEDEAHGVVLREVNGRYRFFTKPEYAGFVSKLSGRKYKNLTDTQMEVVALLLISGPIPKSEIDAFRGKDSSAVLSSLQRMGIVRKKRKGKSYLYQLSPSFVESTMLDEILKEVSQKLSSDGGES | 0.171 | | 91 | In | 0.681 | S | 1.17 | In |
| >7b3bda4d49dae760d8137bd5a28326403f7e6412 |  | |  |  |  |  |  |  |
| SLKKITASDVASHLGLSRSSVSRAFTEGASIAPKQKARILDAAKELGYQPNLFARTLSTPSQKAKSHLVAILVSDFSNPYQSYLFEVLSAALQNNGKMPMLVNINRDTDLDTAILRLSGYQVDGVIAVAGSLPVQSFEQCLKLKLPLVTLGRSDPNHMIPSIQTDNHLAGKLAARHLLSKGLTQLGYIMGREDGEASIARHAGFRSELNATGINIHTTFFAGRYGYSAGFEVGVRHSEDIRRLQGIFCASDTLAFGLIDSCNQVNGISIPGQLHIIGCDDVPMASWQGYQLTTIAQPVHAIAEMALHYLETLWADKTLAPSAPIRLPPELMVRRTEG | 0.217 | | 20 | In | 0.665 | In | 1.42 | In |
| >1aeeb065b325cf664f1838e4831bf8743fb694c6 |  | |  |  |  |  |  |  |
| MRTLLITGPGGSGRTTVAAATALRASRTGTRTLVLSADRTDTLGAALGVPTGGAPVEAAPGLTAWRPDAADRFRADLTAFQDRAATALDFLGAARLDAEELTPLPGAEELALLRALRDAALSEAYDLLVVDLPPAPQALALLALPEELRRYLRRLLPPERQAARALRPVLGRLAGVPMPADWLYETAARWDVELAAVEAVVEDRATTVRLVAEPGPAGADAVRAAATGFALRAVRIDTLIANRLLPEEADDAWSAGLAAQQRKFLEEWRGEYRLHELPHLGHDPRGADDLAALAVPGVNDAPGPVEWSVADRLADDGVLVWHIPLPGAIRDELDLLRRGDELVVTAGQFRRIVPLPSALRRCTVAGAALREGELRIRFAPDPDLWPRER | 0.583 | | 46 | S | 0.819 | In | -0.62 | S |
| >d4fdaa8f2da00c05ed3e42fec94de4fa00e1ac36 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQLKPLAKGRYSQRWEQDYPLIEAVILSCISEVKMLKKGTHLMTQGEAITSLVLVKQGRVSLGHTAKNGRCFQLGTIDCDSQLFGEMEFFTQYHCQLDIIANEPLEIMVISAEKLQHSLGQHPQLALFFASAIAIDYQDTVDIFTRRLLYPISYNVAYDIYHEYLNDLPVDGFSKRYLEAERFGTTDRVYRRALQLLEELGLIERNKEGIRIKDLNALKQFVEAAI | 0.219 | | 51 | In | 0.862 | S | -0.63 | S |
| >f0bcf9f6e61414ac77a1a826de9752bdc54ed815 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMYEEYIRAWVERKKKEEEKMKLLAHKALEEARKVTGVLREKYGAKRVVLFGSLAKYLRGAGEFTERSDIDLAVEGLPKEEYFRVLSEINRLSEFEVDLIDLEGCPAFLRSLIEREGMEIEEGTDSLTDSGDR | 0.349 | | 98 | S | 0.773 | S | -1.68 | S |
| >ac86e52bdb6f87be28b4d58e9459491fa1544941 |  | |  |  |  |  |  |  |
| MSDPSTYRPAPGTIPTEPGVYKFRDPEGRVIYVGKAINLRSRLSNYFQDLSVLHPRTRQMVTTATSVEWTVVASEVEALQLEYTWIKKFDPHFNVKYRDDKTYPVLAVSVGERFPRAYFYRGPQRKGVRYYGPYSHAWAVRETLDLLTRVFPIRTCTKAVFNRHESLGRPCLLGYIDKCSAPCIGRVSESEHRIIVDGFCSFMAGNTDSVVRRLTNEMISASEALDFEKAARKRDDLNAVRKITEQQAVVLGDGTDADVIAVAADDLEASIQLFHVRSGKIRGQRGWIVERTDNSESELEELLQSFLIRFYSDEVAHEDQVSDKELTVARRGVDKQSHESDLANRRINTSVVPKEVLVHKAPANVEQTTAVLRSLRHSNVDVRVPQRGDKRALADTVFANAQEALRQHKIKRVSDLTTRSAALQEIHEALGLDEPPLRIECTDISHIQGTDVVASLVVFEDGLPKKSDYRRYKIKEAAGEGKSNDVGSIAEVVRRRFARYKNDCRMVPQEDEFDGSRFEDESLAGENTVAAKQRFAYSPQLFIVDGGAPQVAAAQDVLDELGITDVALIGIAKRLEEIWLPGEEDPLILPRNSQGLYLIQQLRDEAHRFAITFHRQQRSQRMRRSILDDIKGLGPARRKVLVAHFGSVKELKKASESEIMMVNGIGPALAHSIYVALHPDSDDSSVQ | 0.437 | | 73 | In | 0.961 | In | 0.33 | In |
| >a3f6de542281a186430cad443a647a6e52e6cac8 |  | |  |  |  |  |  |  |
| MAHHHHHHMTQKLLLAEGLDLLRQCEQHEYDVDRTKLRISSHNRYCSELGRLLQSYDTVYHQYVRGIQILNYVRHTALADTNPVNAQYAKNLSEFCAAKITAYMTRCSNIIRKTDGILVPIEQIDLITKEGYVPEDTIYLQDGITYPLSRKEKVIAKEFALTAGTYVLTLKNRDDYTLAAPEVDVALVVLPQRGSGFEPSRVEMKLPCQCGWRKVVGVADVSTVQLEIRYSGIRDAHVDVIFQKWCAIEDIGRSGGVVNGPGPALSPSAFDGGDYNSVCKSPPNRGGSGGAAGGFSHHSCTPAHVSASDAGAPAHQQPQQWVNSLPQLPDDELATLANYNVPSASLPTVPDRPADGSGAASSAAPSSAEDPWTALANLNVPYAPTTRNAPSAASVMQVPEPVEVNPAGMTCRQRLDKIHQLMDAWPSIGVVACALPAEPQGFMQGVQALPFPRELSA | 0.469 | | 69 | In | 0.986 | In | 0.77 | In |
| >d95e95f20c60795f0118cf0cd07beeb6c1072b2a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSANEQWDIVSGVGITALAVAVARARESRRDDRLIDDPYAEPLIRAAQPPVPMSGDGGEAGALWHEMTDYVSVRSRFFDEWFARACAAGTRQAVVLASGLDTRAFRLEWPEGFRVFEIDQPKVLEFKDGTLAAEGVRASCERHAVAVDLRDDWASALVKAGFDPALPTAWLAEGLLPYLPPEAEANLLATVHDLSARGSRIAIESIALARSALLGADLDDTAREWGIDLKGLFSLEDRPDPGDVLAQRGWRVHRDPVGDLAAGFRRPLSDRAQQLGAAGEMVTAQRD | 0.257 | | 44 | S | 0.537 | S | -0.99 | S |
| >e81204f5c38f09b18596c0e1ac8d934cd40fe931 |  | |  |  |  |  |  |  |
| MMTAVSQMSVPSSRILLDVDCRVCEDHSSGKHYSIFSCDGCAGFFKRSIRRHRQYVCKNKGSPSEGQCKVDKTHRNQCRACRLRKCLEIGMNKDAVQHERGPRNSSLRRQQMMFDHGSSPNSPEMGSESDAIILPTSSMNRDTVAGTAARIFFALVGFCQNPLNGVPKERQMTMFQQNWAALLVLHATETRAITSKQIRTETISGSSEQRNAVANAFEIIERLQLDNREYMMLKHFTMWRDTPSAIQIVFQLASIQNFTHRTEPTRYIQCINAIAAIPTTSIIDVLFRPSIGSASMPRLIQDMFKPPQQPTPTSLFPMANFNLNFLLKQEKTETEEGEDIEEEDDATSSNQFDENSSTDDRSVGELDPVQLFLALNSSTQPSSASSPSSSRPRHSIRSITELLSIQEEESVNVEEV | 0.396 | | 42 | In | 0.987 | In | 1.05 | In |
| >def5d666da87ca59e0f1edf3f59154ef07583bcc |  | |  |  |  |  |  |  |
| MWSLFSNVFFSFPGSRNFTPIYFSDFIIFRPLDLSGKRLVRPDDSNGTRSSTDDVHSMCSQQNVKVPIAPTSAQMTLNKVKDPGPYENKLALKVPKNTTVDVAAQNLAEQVKIFILQYGVELVDNEPEINQGVKSK | 0.61 | | 73 | S | 0.762 | In | 2.05 | In |
| >05a0338f42fa7942c56cfc4b0e34c939dd189b69 |  | |  |  |  |  |  |  |
| PSAPPNLAKLYLNGAIFSTEDFDKEVDKILKTPSIKGVLLLIDSPGGAVSASVELSEKIADLKQKMPVLAYARGVMASGSYYAGMQASEVYASKASLIGSIGVIFSGANVENLLNKVGVATQGVHAGEYKEIGTFTRAWKPNEKDFLQNLVNEQYQMFVNDVAKARKLDAKDYKDFAEGKVFSAQKALKLKLIDKISTIKQAQDRLMELSKVKKAYWLEKSPMERFIEKATQSATNIITQAFGYQLLMR | 0.421 | | 93 | In | 0.651 | S | 1.52 | In |
| >6727ea9d2bd8337a360670fb64616a82736b22b3 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPGVKLTTQAYCKMVLHGAKYPHCAVNGLLVAEKQKPRKEHLPLGGPGAHHTLFVDCIPLFHGTLALAPMLEVALTLIDSWCKDHSYVIAGYYQANERVKDASPNQVAEKVASRIAEGFSDTALIMVDNTKFTMDCVAPTIHVYEHHENRWRCRDPHHDYCEDWPEAQRISASLLDSRSYETLVDFDNHLDDIRNDWTNPEINKAVLHLC | 0.155 | | 95 | S | 0.735 | S | -0.81 | S |
| >4a59b35d7810298b621f171aa8dd8aa499b92212 |  | |  |  |  |  |  |  |
| MQAVALENDVIRRFASGQMFPMAKLVLETAFQPIVEATTGTIFGYESLMRGHDRLGFSSPLALLDQAAADGELKAFEQMLASRALAKFSTLPDFSSATLFLNLDVRLIPHGDVILDKLVGHLARAGIPASSICFELSERFDNTSVPEFTSLIARMRKEGFKLAIDDFGAGHGEMKLLCDFPLDYLKIDRHFISGIDHLPRKQHLVRNIVNIAHVLGVRVIAEGIETEAEFLSCREFGVDLVQGWLIAKPTVFTSELPESFPHLNRVGVARRNSQTLDEILIRREIERLPTVFEHDSVDSVFELFRRNPQQAFFPVLNANGEPRGVINEYHLKEYIYRPFGRDLLKNKIYERTISHFVDPAPIVGLDADADQLMNMFASMGGMGGSACIILTENMRYAGIVSAASLIKVINEKQLKMAQDQNPLTALPGNRAIGGFIADSCSDGDETRFFCYCDFDNFKPFNDKYGFNAGDHAITLFSALMRRYFFAGDCFLGHIGGDDFFIGVRDWSVEELMEILERLLSDFHDDVAGLYSDEDRAAGCMKGQDRNGNERDFALLRCSIGVLTLPKGSIIANPERIGSEIASVKAAAKENEGGLVVRVFGEAN | 0.326 | | 45 | In | 0.594 | In | -0.27 | S |
| >178c158bb825c3d1a8cda62fab0bd2fc6e62f6ef |  | |  |  |  |  |  |  |
| MLKIAVALCLVASALCAKCESPKYSASSFSTTDGFFHYKTTFITEFTLQCSNNPKNIQYTAEVNGRLIPVSISDETAKFQVSWTLEHKDAGAQTFNINIFDEEGAAQYAKNPVTKPLFTVQQSHGGLATKSPISSETVAVIIVVIGLYYAIRQKTELVH | 0.714 | | 82 | S | 0.608 | In | 0.7 | In |
| >b35510468b8809f0012114bfcc7088f474789bda |  | |  |  |  |  |  |  |
| MSLDLPAVPRVLIAEADPWSRDLLKQVLLNVRCDARLDLCADGQEAMTLLSEVPYDLAIVDWELPGVDGLSVLRSVRQRKRNPPLPFILMSSRNDSASVREALPLAPTAYLAKPLNMESLTERLQGLLLNAGEEVFCEVPALAPGMTLSVFLERRREQADGAPLMTDVQVAVKRSLNPNGLDLKLLEEEIRTDPQITAVLIAAANSAAQHHGAPVQTLAQALHRLGTGQSMNLILGLALKRSARLSDPCLADYAERYWGLSLHTAEYARTLARLLDLDQERCYCAGMLHRLGDLALLRCLQEWKQAGGELDELEEVGDALAEFGAAYGSALRTRWRLPLELRELIASVYQLGGGVYSREALVMNMAAQMAREGHHHHHH | 0.528 | | 34 | S | 0.654 | In | -0.48 | S |
| >4ee4804e12c747b876b42ee8fffcd498b4c29dc3 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNSKKHLGHTARKRFGQNFLHDTSVIQGIVAAIYPQPNQFLVEIGPGLGALTEPVGELVDHLTVVELDRDLAERLRHHPFLHQKLTVIETDAMQFDFGALYTKENLAEKGQKLRVFGNLPYNISTPLMFHLFKYHDVIQDMHFMLQKEVVKRLCAAPNSKAYGRLTIMAQYFCQVMPVLEVPPSAFKPAPKVDSAVVRLIPHKELPHPVKDLYWLNRVCSQAFNQRRKTLRNALSTLFSPENLTALGIDLNARAENLAIADYARLANWLADNPPADVNKDEILDSEE | 0.227 | | 73 | In | 0.582 | In | 0.45 | In |
| >d36a1fcc9fe8f0203263df2babcc275a01bcf628 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSIELLIVSADHVLFQTKAQHAAGSAAATRHQSETAPGSAIGEDFCAAYQEAFVQASAVAKVSVRRQIEQLMREAEQAGARLAIVTMMSSRMLSALLDSYDQPACTDRFTVIATADSLGHGRGHADLLRLVLHAVDLPADRALFIGANASEAHAADALGMPVMRLGDSMASRQDEGPTILSDVPTASWPSFEDIEMHFMQGAPTQPSRYTSLGTLAAPA | 0.136 | | 43 | In | 0.613 | In | -0.8 | S |
| >fa2face930149e9bfb9a93a06d464a9f9a5a5dff |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNESFRKYMKVGLVHFMAYPSTSKGEGPILETLRRIAMDEYFEVVEMTWIKDPAVRKKARQIIETSHMEFSYAGMPRLLPTKQNINSLNEEERLQALANVKEGIDEAYEMGAKDFAFLSGKYEEPRKEEAYQALIRSTKEICAYAKSKGDMKIAIEVFDYDVDKCSLIGPVALTQRYAKEIRREYDNFGLMVDLSHLPQLRETPAESLIPVKDYIIHAHMGNTLVKDKLSPVYGDEHPRFGFPGSENDVAELVEYLRVLLDIGFLNKENRPIVSLEVKPYEDEDPELVIANAKRVLNLAWDQV | 0.208 | | 90 | In | 0.69 | In | -0.69 | S |
| >7fdd0b2c29b914eb267f3b2a769b4b60d98fb7db |  | |  |  |  |  |  |  |
| MHDSLTIALLQAREAAMSYFRPIVKRHNLTEQQWRIVRILAESPSMDFHDLAYRACILRPSLTGILTRMERDGLVLRLKPINDQRKLYISLTKEGQALYNRAQTQIEEAYRQIEAQFTAEKMQQLTHLLEEFIALGNSRQEDIPGDNE | 0.581 | | 48 | S | 0.519 | In | -0.5 | S |
| >bc92793547f345f55ffd78c606fccb3dddc2ba40 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSDQPMNEVQDNAAPANPWLELRRLTPARIALGRTGTSLPTCAQLDFQAAHAQARDAVHLAFDHAAISAQLAEKGRETILLHSAAADRDSYLQRPDLGRRLNDESAQTLRDYAAAHPGGLDLAVVVADGLSALAVHRHAVPFLTRLEEQASAEGWTLSPVLMVEQGRVAVADEIGELLGAKMVVILIGERPGLSSPDSLGLYFTYAPKVGLNDAHRNCISNVRLEGLSYAMAAHRLLYLMREACKRQISGVSLKDEAQLNTLESDDSAENSDRKIGNFLLDGPAVPH | 0.335 | | 46 | In | 0.827 | In | -0.28 | S |
| >1972409997d11e6aef79c07e97cfc49ddfb1e360 |  | |  |  |  |  |  |  |
| MNSEFDVIDRYFTRPRRNALLGPGDDAALIACKPGMDWAISVDTLVAGRHFFPDVDPATLGHKVLAVNLSDMAAMGATPCWATLSLTLTETLAQDDIWLKAFSSGFFALADQYQVELIGGDTTGGPLNISVQIIGEVERGKALRRSGAQPGDDIWVSGHLGDAALALQSLQQHVTLTAQEAAPCLAALHTPMPRVALGKALVNVAHSAIDISDGLLADLGHILDRSGVAATIDFDHIPRSPALKNKLQPENTVTNTICQLAIDCLLAGGDDYELCFTVPESKRDAVIQLAQESGILLSRIGKIIPGKGLTVLGTDSNPLIFKNKGYDHFSAR | 0.682 | | 50 | S | 0.553 | In | -0.18 | S |
| >72cd22c8db5f5d7fdd0a1b2b19b6d6ebc8803a1d |  | |  |  |  |  |  |  |
| MSLKDIFDHDPRKPPRIRAYRGGYLPTERREVERAMRAGTIDGIVSTSALELGVDIGALDVVILNGYPGSVAATWQRFGRAGRRQQPALGVLVASSQPLDQYVVRHPDFFADASPEHARTAPDQPLILFDHIRCAAFELPFIASEPFGPIDPLVFLEVLAESEVIHQEGDRWEWIADSYPATAVSLRSVADGNFVVVDKSDGKQQIIAEVDYSAAALTLYEGAIHMVQSRPYQVERLDWAGRKAYVTRTHVDYYTDSIDYTKLKVLDRFDGGVAGRGDSHHGEVHVVRRVSGYKKIRYYTHEGHHHHHH | 0.362 | | 50 | S | 0.647 | In | -0.22 | S |
| >17b91a5727abe595463ee92e1fce3b2b64c6559a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHDKSKRANQKEKVLTEVQRITTKDLDKNYPQTPREVVKLYNRIVKCYYGMQYSDEELDALTDQALKLFDDELAANNPKDTYKQSVTADAQSYKDQGITLAQTGVCDSNDVKYVTDNGSKIAYVKASYFMKEGSSYSKTYQEYVLRQDKEGCWRILTFYKIAADSDTETE | 0.154 | | 93 | S | 0.666 | S | -0.6 | S |
| >e6df5ff61d42f4dbdaf4e2d7db6fb5c1b9bc4d1b |  | |  |  |  |  |  |  |
| MAHHHHHHMQSRVRLLYLEFMYLLPQLKGFYSPQGAAVAPKAPASGMATSKPFYLRLPADHPACESLRSGHVTELSSHRQGKRPAGASPAHTTATDAEAPPPLVDVSTAVNSESCVVFKLQGDSERALVAPFMPANWDNSIARKPSPSPAGQRAPAAERAAEAEYRARVQRLFYANALVPAGSPEWKRCLARGRYEVRSVHNVLHVRKYRALHKRYSWASQLSRTELEAAWGGNVEDVEQALLGLSNRDVYGYSGSEAEASEEAKDNEKQEEHAGRP | 0.433 | | 63 | In | 0.975 | In | 1.73 | In |
| >195cab950cb5d227a72353430b6d71a5de7b1256 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPNHAPSPHYPRVLLVVNARTNDDRPAISVKAALERAYAQVHTVTERAEAEQWIRHWDPEVLVLLGWSVVNGDWLQRLQPAPHQGSLSFLVVGDGAPEDHERMDAVAALEAGAQAYIPSSMGPEPLTAQVRNMLRNCERMRPIRMGEMETLCIDLVSRRVWILGQEMHLPRQLFYLLHYFAIHPDEVVSSHQIAYILSEGKGAYLAPNTQVVKIHRLRKILESAGAKGWLDTVPGFGYRFTPLIDPKNVTKKSPH | 0.174 | | 47 | In | 0.732 | In | 0.76 | In |
| >90d980dd1a5418b11ca23ff06d6db5edfa909c2c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDGKPLARTTIIQSCTILFGFSKPLQIELWNIFLRSRDTTNFCNRAGSRHPQCYLATGSRKRSQTPRSSICKDHIMQELAANFIKTANAFDIEGVMSLVAPDAIIDDVSVGDAFIGPEGIKQYLNQFFVGYHTQSRLLSVGKQDDHTAFVRLDFAGDFGHEIGVLKITINSDGWIHADLE | 0.115 | | 23 | In | 0.58 | In | 0.47 | In |
| >4169dcc8698be4fbb2716bf811e4adf1d5e73cba |  | |  |  |  |  |  |  |
| MKSFQKSYEFDYPWEKVTTANWMKYPNKISTHVIAVDVLRRELKEHGDVLLTERLITIRQNTPHWMSILVGNTNLAYVREVSTVDRRDRSLTMRSCNMTFPHILKCYETVRYVPHPKNPSNVTLFKQDAKFLSGVPTKTFSEKVENWGVKRFSDNAVKGKVGFDSILAMFNDIWKNANE | 0.44 | | 35 | In | 0.781 | In | 1.22 | In |
| >c9342f56cd883e72dee86b4bd3f1619ee74880d2 |  | |  |  |  |  |  |  |
| MSLAMRVVILGSGVVGVASAWYLNQAGHEVTVIDREPGAALETSAANAGQISPGYAAPWAAPGVPLKAIKWMFQRHAPLAVRLDGTQFQLKWMWQMLRNCDTSHYMENKGRMVRLAEYSRDCLKALRAETNIQYEGRQGGTLQLFRTEQQYENATRDIAVLEDAGVPYQLLESSRLAEVDPALAEVAHKLTGGLQLPNDETGDCQLFTQNLARMAEQAGVKFRFNTPVDQLLCDGEQIYGVKFGDEVIKADAYVMAFGSYSTAMLKGIVDIPVYPLKGYSLTIPIAQEDGAPVSTILDETYKIAITRFDNRIRVGGMAEIVGFNTELLQPRRETLEMVVRDLYPRGGHVEQATFWTGLRPMTPDGTPVVGSTRFKNLWLNTGHGTLGWTMACGSGQLLSDLLSGRTPAIPYEDLSVARYSRGFTPSRPGHLHGAHSEGHHHHHH | 0.679 | | 18 | In | 0.531 | In | 0.48 | In |
| >b98666ab88b915219668110bda54af63f0070210 |  | |  |  |  |  |  |  |
| TQSSELSSGSSSWGSSAGNDGPVHSSRRISPGLDVTMIGDLLGPGITEHIDVLAGDLGQMVPLNEDGEFAIIFGDSFRGKELGQGEWLSPVGVVGKVVDGRIRIIRPLNDGERARQLIDYQHNDRGLTLLPSDIINIGGTLYMQAMWNEGIGNVLSTQIWSSTDNGKTWDSVVTLPKDFMGGMGNLITWENGPDGYIYMMSSQFKRTDDVYLTRFKPEDIGSPSLWQHYSHGAWGEKYSPVLSRNVQAGEMCLRFIEGHWVLSMFNANNLTIEIRIADEITADWEAIPPAKVVVMGTGGWAAEQGPNNFTQL | 0.703 | | 20 | S | 0.585 | S | 0.68 | In |
| >83a72ae9d19da59ee97cc266bf2f5fe5e0a31a26 |  | |  |  |  |  |  |  |
| MVTCMEAWAMNKRDAINHIRQFGGRLDRFRKSVGGSGDGGRNAPKRAKSSPKPVNRKTNVFNEQVRYAFHGALQDLKSKPFAT | 0.488 | | 88 | S | 0.732 | In | -0.47 | S |
| >a40c5219d83c434309b38ff1bc9ed2d708a5b515 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSVLVIGADEITPIRAVLHDLGAKKIEHWDARNENRVNRKPIPCDTECIVMLTSFLNHNTMKKIKNEAKKRKIPLVCAKRSVSCVYCEYCKIFNLNKEFSCYKG | 0.089 | | 99 | In | 0.711 | In | 0.06 | In |
| >bfdfa139e07bdca5a746110898f695a57c017991 |  | |  |  |  |  |  |  |
| MSAQPVDIQIFGRSLRVNCPPDQRDALNQAADDLNQRLQDLKERTRVTNTEQLVFIAALNISYELAQEKAKTRDYAASMEQRIRMLQQTIEQALLEQGRITEKTNQNFE | 0.401 | | 63 | In | 0.572 | S | -0.87 | S |
| >51581c9970c7cabc85b7fbf2595a7fc28a146174 |  | |  |  |  |  |  |  |
| GPGSMVPLLFHSSPLPSPLPPLDPISLLPTDTDKDVLLRPHSRWLVRKDRTRIFLMQSARVALPRKGGSSGGAGVGVATAGLLLETSLGPLAIDFFGADCSALTANFLNLCRAQLWNGAVATEVVPEVVVFFSLAADPVYKELLEKLLRSHSAGAAAPPGPGPLNFWSLLPRQERAEGDTSRTASTATVSLHSHAAASVHSTTDPVEQQETAVRQAMQQEARLCKRRRCVGLALPRAGGSNTKGGYQPVYVPASGSSGAAVATDAAHASASHSASSPCTVCRSGSLLVDASAPTLRFGLTLSDRAMDFLDKQYITIGVVREGEEVLRRIRRAPVRDRCGDDAPTTAGADPLAAVDNVAGRPALSWPRPVRMLRVKRATVLPTAGTEKYVAVPPSAWWGVSSTASSAAAMKQQRQLTAAALHQAGCFEWWASEAAVRAAHRQLVDLVRTSLAAHGYVVITRPRTVADASIYLQKAAASTGRHAAQPLIVVAAAPAQTRSDDEAATSPGEPELVCNLHYAGDYLSSEDDDAEGFHNGGQTLPHSATAALSAKQLEERRKSFMQQHQEKANETLSLMLNLLNGVADVRGDIKPPDNVLFVCKLNPVTTGEGLALCFSQFGRVTSADVIYDAKTKQSLCYGFVEFESVEACFRAFQKMDRALVDDCRIHVDFSQSVSRLWAQRQREMRKRDRVALE | 0.587 | | 34 | In | 0.984 | In | 1.25 | In |
| >ebb9615047e40c925bfe60142941c23e90a2547e |  | |  |  |  |  |  |  |
| GCPINVSAVYTARNLRRLLLVPRQEPIYWYRQQNLKKPVIILVCGSAYFNHLYFNLADRLYPKYDFLVVDAIYDHFNKVATDIPELLEYYVRTVQPMIRERTVYALTGFCMGAELAVGLAEMLHRSMGIMPKVFALDGQAWQNPALCQNYPLLVFPGDTDEMVRERNEIINIYFRTTPNLIYQGEVIVLLSGLFHQQAGLSPEESWTEENYRIFRTEYDNCERLWNKYYPNAPVLRLPTDHWHFLEGESLEQLITVFLK | 0.489 | | 14 | In | 0.735 | In | -0.19 | S |
| >8c3a88a6c316ecaba574fd6516a2726013fdf4ef |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLNALSPITEDLAGQSYPSPHYLQTQRRIRSLIDRYIAVEQLHDRLQDLPIQFANPQPRAWKPIDWQTINRNQIIGLDTEVFLSILIGAMDTEAPIRGYTQTSRQYLEKLHPQMARFVGGTVREDGELLELGLWEKEERQHTPALIKIYTQLTGEKITPKFRTVRNYLPTDDAHEDLYRHGLHRIATEYGATCLYIWLMAHTTGALQDVLEELAQDEINHTTKFWGFGAWTFPDTGLMRIGRTLIETRAQNYQRNNLMRTLHRMMGTLNWNAWSLTNKATLLFTFTYTMRRLWSWNNSLTPEYLQDLFETTHQ | 0.158 | | 10 | In | 0.781 | In | -0.21 | S |
| >4de0122c5eff0a25bfdea61a6c40ee28d3ca9f8d |  | |  |  |  |  |  |  |
| MFSLVLIYIAERQTAQAEEDVRRVLLVQGDIQTLHTQIAEGAASVRGYLLTHQEDFLPGYINAQPLINAALVRLDANIRDQQMREHLKSIEPLIRTKVDGLERLRSMGREDHENVAAILVENKYVLDQLRERIGVMREREDALLAERTEA | 0.423 | | 44 | In | 0.612 | S | -1.82 | S |
| >07c096263bbd30f1386335b915555daa7fccef61 |  | |  |  |  |  |  |  |
| MELNDMAQFNEPISSQLLAIDENLTQLVTDIDILSSVNPLNYAQERERFISNKYSQEPNFQYQKAPLDTHQSKRRLYELPLEHIEDTQLQKLYEDVIQSYADKLDQVNTIGTQEFLYNSLRYYGEPSAKDIANAHFILHLPTEEESKPEHDSRSIAHFMQSFADKNGYECEIQILDGMLANALVSGSRVKINSAAHITTDELEALAHHEMGVHLLTTLNGRQQPLKVLSLGCPANTNTQEGLAILCEYLSGHFSIKRLRTLALRVLAVESMIKERDFRHTFMLLKEQYKASDVQAFTITSRVYRGGGLTKDYLYLRGFREVLNAYDKLGDDFSLLLCGKTELKYFDLIRSLVNKGIFTQPKFISPALSTPKQTNPIHRYIVSALKAAALEHHHHHH | 0.418 | | 47 | In | 0.664 | In | -0.23 | S |
| >9c25d84fdba9ebaa635b089e4bd928a3281758a8 |  | |  |  |  |  |  |  |
| MSLTFDFFEGPAGSGKTFSMVAHARQLIESDALGEGQRMLALTFMNGARRRLTSNLNAEASFRRKFDCLTFDSFAQSLAKRRSAKLTDEMRQQAEELGQFHGPCFLACELLNDVEVRRWVARTYPLVLVDEAQDLDVHRQGIVLGLKECCTTVVAADSFQCLSDGQETADFIDRLLRAGTTHTLTQSHRTNKAGLLAAALAVRNGEDIRAVLNEEAIGKTNRVHWIGEGIELVEVPATARNSGLLAWNLAFQLRLGSDDVALLTPDSANTIIRNAIGTVASKEGHHHHHH | 0.652 | | 34 | In | 0.788 | In | -0.23 | S |
| >b42df141987586f5b1350857624e52bafb1388c2 |  | |  |  |  |  |  |  |
| MYIFEQFFDQRFGKSMVIKGKPGSGKTTFTLDFLTSIRDHHPVYYISSRSTDSAISEAYPWIKERFSGEGEISKVKTDYLNRFEKMVEEGKFGDFLKDGLIIDTKKIVPIVHSLYEFVDAHIGERPIIALDSIDAIAEEYNIPEDFLFLMLKNDLVEGSGANLVSILEAKQNERLEYFADGVVSLDYNIKNDMLIRSLTLEKMRGISIGPYPSYMFSLAGGKFNSVMRSSLVFPDTKYEPARISDPAEFQVSLGDPEYGKLTPEGTDTVPGGSIVILHLKDKGAAVNDFVSLFKTNLIITNIIQGRGVIDVTASGYETYTVLLKSLAGKYLNNYITTSKSDMINPYVISLKGVRLKDDINREIIEVKLAQSKGPYIYFFSSDYLYLVYGPEFLNQIIEVVDDIRTTGVIFIVADDTTYDKMFSASHISLDLFSVNGYAAVSSNKTSSYLIQIMPDEKRWPKIRFIEIE | 0.577 | | 41 | In | 0.622 | In | 0.18 | In |
| >d5fc1ed255bce024b8fe4bf943e010abe7e9d860 |  | |  |  |  |  |  |  |
| MSLKLPAVFLIGPSDSGKTSLFCELIYKEKKTTVPSIEPNEAVWKYGAWLVDLPGHPRAKRWITTKFSGNYNVKAVVFVLNSATIDRDVHEVGLMLFDTILKCRKHHVPHLLIACNKFDLFTAQPAEKIQQLLKAELHNILEEKNLQLESIVSEDVDWESVADQIEDTDLKFLPGSVAKMSNIEEWISWMESALEGHHHHHH | 0.762 | | 97 | S | 0.509 | S | -0.64 | S |
| >929eefcdc2416c0d8abaaeb71ff3e2607ed03d8e |  | |  |  |  |  |  |  |
| MFIMTHWHDRQPIFRQLADQITQQILQGVWKEGEALPSVRSISADMKINHLTVMKGYQLLVDEGLVEKKRGQGMFVAQGAIQQLRSAEKARFLEQQIPQIADTLQRLDMSVDELVQQLNPHMKGDQ | 0.356 | | 57 | In | 0.539 | S | -0.5 | S |
| >1d0ddce04d95beb91f1c81ed3afd325ba95abb0a |  | |  |  |  |  |  |  |
| PQKHPFLVVDPRAGHGPGIGGFKPESEIGVAVRAGHPCYFATFLPHPTDTQTVEDVMRAEARFLEEIIALHPQAEGRPVVVGNCQAGWQIMMTAAMRPELFGPIIVAGAPLSYWAGWRDMNPMRYSGGLLGGSWLTQMTSDLGNGKFDGAWLVQNFENLNPANTLWSKQYNLYAKVDTEAPRYLEFEKWWGGHVFLNGPEIQYIVDNLFVGNRLATAGLVTSDGIRIDLRNIRSPIIVFCSKGDNITPPPQALGWITDLYQDDREVVAHNQTIVYAVHESIGHLGIFVSGAVARKEHQEFTANIDVIDV | 0.626 | | 18 | In | 0.542 | S | 0.34 | In |
| >80a08bb84198ee9c8d7ba5dc5ea370f4fc48a635 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMADMGYTNLNDTRVLRAGSCDAWWRTMSPLVQQGSEAVFRRIMGLSRRPDRKPGFDDVPHFGAAVRVPGLKHGTLVNAAPLKVLGARGEPNPASSYRFEYITGDSAGRAITATGAVLFSTRPWTTGPRPAIAMAPSTQGVAQHCDPSHTCAIGLNAFYDKPFDAIIAYELPVILWFLAHGLDVVFIDYPRDPATGVQYYCDSIAAAKSLLDAVLASRQLGLSPEAPLGLWGFSQGGGATGWAAQLQDYAPDVRPKAAVVGAPPVDLFRVLDTVDGGLLTGVIAYAIAGLAVNSSEMFEEIMSVLNERGVSDVLKNITSCAGGSLLASGYSSSRGWTHQGTPLADILDDLPLVVAEFGKQKLGRVAPEIPVLLWGSKNDDVIPIDPIRELRDSWADKGTPLTWHESQAPRVPGRTGLNHFGPYFRNLEKYSGWLIDHLV | 0.381 | | 32 | In | 0.803 | In | 1.09 | In |
| >0366e1f4afe03cf5dc9ce631429118400d1ddc6d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPQLLLRGTPIGKIQGVLFDKDGTLCHSEPHLLTLAKGRIEQAIRRFHGGNASESVVCKIEELLSAAYGLNAEGLDPGGTIAVASRHHNLISTATVFCLLGEGWPQALALANEVFAAVDALENEVPCLVTKRTLLPGALTVLQALRQQGVTCAVISNDSASGIETFLNQNNLHDTVTELWSAEHRPAKPNPNAVKRLCQLMGLAPAQCALIGDADSDLQMARQAGIGLSLGYMAGWNQPPTLTNYHHLIHHWNDLAVK | 0.125 | | 65 | S | 0.608 | In | 0.46 | In |
| >104529117c8abd7f4cdea43a83e059f0bde11c04 |  | |  |  |  |  |  |  |
| MTDPDRLNQILQDQPYIEGFVQPSAADFSARASITEKELKGREHLERWFQHLSSFEMTAETDVRSTENLPQQILDFLQESNEFNSIQLAQQWNLDHQKVIGAIKSLLANEGVLTTKDVTEKRLELTNEGVQFANEGSPEYLVFEFVGTDGAAQADIQKKPFGKIGMAKAMQFKWVSVDKGRVVRQATEVTDSTRKQLESLRIGSSDVSENEKKELKKRKLISEVNIKALVVSKGTSFTTSLAKQEADLTPEMIASGSWKDMQFKKYNFDSLGVVPSSGHLHPLMKVRSEFRQIFFSMGFSEMATNRYVESSFWNFDALFQPQQHPARDAHDTFFVSDPAISTKFPEDYLERVKTVHSKGGYGSAGYNYDWKIEEAQKNVLRTHTTAVSARQLYQLAQEGFRPSKLFSIDRVFRNETLDATHLAEFHQVEGVIAEKNLSLAHLIGIFTEFFKKLGITNLRFKPTYNPYTEPSMEIFAYHQGLTKWVEIGNSGMFRPEMLLPMGLPADVNVAGYGLSLERPTMIKYGINNIRDLFGSKIDLNVVYNNPICRLDK | 0.456 | | 49 | In | 0.952 | In | 0.52 | In |
| >b2061349a369ea31717b4d133d736f23b89869d1 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLTLIDVAIIGGGASGTTTAFHLASNSKKVCILEKNIFSSERICGGGMSAAVQNWFPFKLLPIVDEVITNVEFSWCNTDKVVAELSGSSPFWIVKREKLDSFLLDQALNSGCNLLTTFKVVDIKKKSNVWHITALDGRQIEARAVVIADGSQSPWPKTFNLGPTQQKFASTFSGRIKRRGNLRNETARFEFGLVKNGFAWAFPLDNEVNIGMGTFLDNKNSLPVNEILKSFLPDLCFDPSEVIGHEKKLRIWNGHCKLNGEGILLVGDAASLCDPFLAEGLRPALMSGFEAAKSLIYWLDGEVNCLDAYTNTMQINWGNSMAWGKRISQVFYRFPKVGYQLGVKRPTAPKRIAQILSGEMSYEDIAKRVIKRLLFQN | 0.546 | | 44 | In | 0.924 | In | 1.95 | In |
| >276ebdfcf005183229623415fa97052361c67c42 |  | |  |  |  |  |  |  |
| MLKQPIQAQQLIELLKVHYGIDIHTAQFIQGGADTNAFAYQADSESKSYFIKLKYGYHDEINLSIIRLLHDSGIKEIIFPIHTLEAKLFQQLKHFKIIAYPFIHAPNGFTQNLTGKQWKQLGKVLRQIHETSVPISIQQQLRKEIYSPKWREIVRSFYNQIEFDNSDDKLTAAFKSFFNQNSAAIHRLVDTSEKLSKKIQPDLDKYVLCHSDIHAGNVLVGNEESIYIIDWDEPMLAPKERDLMFIGGGVGNVWNKPHEIQYFYEGYGEINVDKTILSYYRHERIVEDIAVYGQDLLSRNQNNQSRLESFKYFKEMFDPNNVVEIAFATEQ | 0.116 | | 51 | In | 0.836 | In | -0.06 | S |
| >7388729d01421ed49d59d49474a0ebd026e269ab |  | |  |  |  |  |  |  |
| MSLEKAPVTLLDAQSLAQSFFNRLWEVAGQWQKQVPLAARASQRQWLVSIHAIRNTRRKMEDRHVSLPSFNQLFGLSDPVNRAYFAVFDGHGGVDAARYAAVHVHTNAARQPELPTDPEGALREAFRRTDQMFLRKAKRERLQSGTTGVCALIAGATLHVAWLGDSQVILVQQGQVVKLMEPHRPERQDEKARIEALGGFVSHMDCWRVNGTLAVSRAIGDVFQKPYVSGEADAASRALTGSEDYLLLACDGFFDVVPHQEVVGLVQSHLTRQQGSGLRVAEELVAAARERGSHDNITVMVVFLRDPQELLEGGNQGEGDPQAEGRRQDLPSSLPEPETQAPPRSEGHHHHHH | 0.724 | | 38 | In | 0.517 | In | 0.26 | In |
| >e4ba9f9d200ba1d0b6e621b28d04d564c85f9c3d |  | |  |  |  |  |  |  |
| MLAKVPDKRNDGKSSFKSLQKYIEERDVIDSETGEITGRLRHRLSVETNCLDRDTAWREMLAVADMNGRVKDPVYHAVISWQKDEKPTDRQAFEACQVAMVAIGMQDHQFVAAVHRDTDNHHVHLMVNRVNPETYKAVYPDRDFYKLDRTMREIELSQGWKHDNGPFSVHERDGNKVVDWAKSSAKEYRKEQAEKRTRRPTKVKDMEQHMGNESLYSYAQAEPKNDAKAVLQKLDSSWQSLHRVLAKHGLELRPTSDKMNAFRVHSAADPRICIKASAMELGGGKLIKQLGPY | 0.496 | | 83 | In | 0.89 | In | 0.75 | In |
| >6add4773594d28d13c54636f62a06c7be29768ba |  | |  |  |  |  |  |  |
| MFDDDKGSDGWMDGSTTIGMDRSGADRDGLISIKRRRMDGRKGWMMLKAVIEETLDNGLNGQANQDEWIGTRRRRRQTIRMDGWIGTIESDLGQNDDDKGWMNSGRIGMDVK | 0.114 | | 69 | S | 0.729 | In | 0.73 | In |
| >3f197b0b2179deffb7933ff186463671d9b4ae6c |  | |  |  |  |  |  |  |
| MEDPSRDPEDPRPGGGDISWGAINNCPPLPVIFPELCGEGDCEALCWNLAARRLGEQPHAGSYSAGQFSSSFGSFTQPCTQWLHKADYKLQRIPEGAKSDAGANEPREPLIPVTEWDKLGKAWTTQIQGSPGSREPALGTGGHYPPYSAGPGTLGPRRPAGRKRHRQYAPAAVGTPLGVATRRDVGRCVCSHRQRSAKSILRVKAGVQANRDTGEGG | 0.703 | | 98 | S | 0.553 | S | 3.2 | In |
| >cfb35ad6d0b1f404cf146a047f06b449ac496960 |  | |  |  |  |  |  |  |
| MAHHHHHHMAEPITNENLQILLTKLMTDRFCSQESSDLDACIQNFVPQHIDGSYVDQSLQRRGIRRCKPYQEIARKCLEDDKKQTAIFRAAAVAPTCKNEQRALQRCQRAKGRDCEAEALETVYCGMVYLVQRQKERQSSAAAPRLAE | 0.372 | | 66 | In | 0.781 | In | 0.09 | In |
| >8fc1d62fa6e24a1ae7ee714d20a765f113ffb4af |  | |  |  |  |  |  |  |
| SSLFKGPRDYNPISSTICHLTNESDGHTTSLYGIGFGPFIITNKHLFRRNNGTLLVQSLHGVFKVKNTTTLQQHLIDGRDMIIIRMPKDFPPFPQKLKFREPQREERICLVTTNFQTKSMSSMVSDTSCTFPSSDGIFWKHWIQTKDGQCGSPLVSTRDGFIVGIHSASNFTNTNNYFTSVPKNFMELLTNQEAQQWVSGWRLNADSVLWGGHKVFMVKPEEPFQPVKEATQLMNELVYSQ | 0.766 | | 27 | In | 0.725 | In | 2.18 | In |
| >ae5724177d739d27bc2bb35b9c49ae6f18a091fd |  | |  |  |  |  |  |  |
| MGSSHHHHHHGKTIFVIVPTNEEQVAFLEALAKQDELNFDWQNPPTEPGQPVVILIPSDMVEWFLEMLKAKGIPFTVYVEEGGSENLYFQGGGGGGWAVAQLEEQLNDLDALNRASAKAIDSFADTSSAISARANEIIRDVKPWDVAQENITLTIEEMAKAARCYHPPPILPAVLTGKESSWEAIARCMDYLVYADDYLASHPPNHYGTEIEARTEMQLQQIVRISEDFVKSAFINAVQRSKVSPSGASADGSTGQAGGSLSVAPRMDSALTAPTANRLIRNEAALQGVDQIVQRLGENFNRTDILRKDVRKLLEEKLVRAVQAQFDGAYRDEETGRGPLTSRSSLLPVLKHYQHGHHPLLRVSKSARELVTDACACLQRYVLTPLEDDYAVADIPSELATVVFELVYRRAIKVIQLDTSFFADPTKLFVDSRGQGIGLFSTPRYFRDYIFIGLDFMEEFWKWKMLSKSIPGENRDFIDHVDDSVDNFIYRIRELLDGYVNAKGALEKESLKEYARSMRRTEWFPSVDCTVHESTTNVLYFHKTLLTSFYGSLRIVLYGSVIGANADYESCQEVEDYITRGVMGAVDDLQVLAEAAAELQQEALAKRNHHTKSNSLNLLTSDVRLSVDIFMINNLCFLEDNYRREACFTTRLAATEPPPKSSCEGASARKDTAAPPPPDPPLSQLFDMLNSERERYVEAFGASWHKCFPSIKGQSDLLSIEPNSTMELRKSQRMAVKQWHRRVNDALLKKIYYCKAEAVMDAKSRTQLFDVSVAAVRDGFERMEVLLNGRTWSSQPQKWMSFTPTEWEDQIRQAF | 0.529 | | 46 | In | 0.98 | In | -0.21 | S |
| >b46115d66fe51de02aa87d088dd740001fa43ef1 |  | |  |  |  |  |  |  |
| MTQDKPIVETISNAGEQVTNVFGQFWQLVTSKNTTNNGDSKPIKIEQLPIYAEDNAPLKQKFLPEEPLPLQREFATIRIACEQEYDRVAERFKVVDCAMTQTKKAATKCNAYLTEEWTALPKAAAITVGGMAGFVLGLKRGPVGRLLTTTIGLATMAAFCYPIEAVDVAKTGRAHAEQTWYSFQESPTPSAIVKTNLSPPK | 0.506 | | 76 | In | 0.643 | In | 0.62 | In |
| >1cbd353bd46f36dc1458dcd8facde796f1e182de |  | |  |  |  |  |  |  |
| SEAWWRTKTGPEWIREKDGNYRVTFWWRDPQGNETHSPIRRVWVYITGVTDHHQNAQPQTMARIAGTDVWRWSTALSANWRGSYCFIPTERDDVFAAFAPGETPDRNVLREGWRQLLPQAIADPLNSQSWRGGRGHAVSALEMPDAPLQPGWDRPETPYSPPLMMQWHSERLGNSRRVWILTTGDEAPEERPLAILLDGQFWAENMPVWPALASLTHQRLLPGAVYLLIDAIDTQHRSQELPCNADFWLAVQQELLPQVRAVTPFSDDAGRTVVAGQSFGGLSALYAGLNWPTRFGCVLSQSGSFWWPHRITPPEGEVITRLKTGALCARGLRIVLEAGVREPIVFQANQALYAQLNTSQQSIFWRQVDGGHDALCWRGGLTQGLMLLWQPL | 0.531 | | 8 | In | 0.541 | In | 0.84 | In |
| >81a99744151c583ba3a1039c14a09bc693d31fda |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQNNDFRTGSGSLKGSSTGVLKQFLFENVFICRIGVIKSFDFETQKGVVTIKEYEGLEISTCSISNFNFDLTAEDEVILLQSNFNIFQESDNNHFDKNYFYILSVLNPKKIGIRLDQFELSVQELGAQSENIKFKAKKLIIDVDNIEIKGNLKINGTKFENHMHSSGTLTYVNSSGVPTTTTGKTGPIA | 0.164 | | 73 | S | 0.641 | S | 1.11 | In |
| >1c57f3d568e2ad78c0902e4f36509c07636a70a1 |  | |  |  |  |  |  |  |
| MMRQDRRSLLERNIMMFSSHLKVDEILEVLIAKQVLNSDNGDMINSCGTVREKRREIVKAVQRRGDVAFDAFYDALRSTGHEGLAEVLEPLARSVDSNAVEFECPMSPASHRRSRALSPAGYTSPTRVHRDSVSSVSSFTSYQDIYSRARSRSRSRALHSSDRHNYSSPPVNAFPSQPSSANSSFTGCSSLGYSSSRNRSFSKASGPTQYIFHEEDMNFVDAPTISRVFDEKTMYRNFSSPRGMCLIINNEHFEQMPTRNGTKADKDNLTNLFRCMGYTVICKDNLTGRGMLLTIRDFAKHESHGDSAILVILSHGEENVIIGVDDIPISTHEIYDLLNAANAPRLANKPKIVFVQACRGERRDNGFPVLDSVDGVPAFLRRGWDNRDGPLFNFLGCVRPQVQQVWRKKPSQADILIAYATTAQYVSWRNSARGSWFIQAVCEVFSTHAKDMDVVELLTEVNKKVACGFQTSQGSNILKQMPEMTSRLLKKFYFWPEARNSAV | 0.54 | | 30 | In | 0.973 | In | 2.04 | In |
| >c50b85511b29776d0297b4572ea92eab10630b0a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTAIKTAIKLPPSTHEFADVIHRLEAGGAMLPDTPENLMQIIGLYKAYAVPMDFYWRDLLYIAENEFLNPVPFFKYFLPKEYLELHNHYAGDDADLRIWRGEATAHPELLAFMEKGETFKMPKLLHHLFHDRINMEFAEACMRAMLWHRGMGGQFDPYLDSDEYKANADRAIKAYFQRNPVMLGLYKLFPDMFLEQCRQMSYYANLGLFWEVMAPVFFEMSDRYDEGTISTVPEAMSFLVNGIFAIAGRPIYHHVYIRGECYEIIPKSKGFMWLYEAALPYVEAVFYRTAPFRGTKSYNAQARQVPEDQKDFHYGILYADVFPVGTAGIPPTLLMQDMLHFLPPYLVNYYSQHCRGEEDMLIQLGVSFQRSMYCVTSAVIQALRTALLYPLDDQNPKHLQANRDFFEMQLNRFTRPDYNIRDAARLGSIQKQDYR | 0.215 | | 25 | In | 0.563 | In | -0.53 | S |
| >2d428b75b87240977bc27a64c9a0d56cab4de5cd |  | |  |  |  |  |  |  |
| PKKSIEVSKEFDKWVQKSKEAHIDYKSWCIWQINKMGWDHWLEDPITDEELLTGKGLEWTKEVEENRELHTRAILDGYTVKKEPMYEIPLPYAINATGKQQYLSYNTEKNRFVCTAKSDKLKQRFTETELKEEVPGFYRELAVKVDER | 0.655 | | 97 | S | 0.698 | S | -0.8 | S |
| >4d76a171b044947ee884984c47ca3a305e748f8e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMMDSKARRVSVAADSQPVEATAERRSRVSGMDRALQVLDHLYETGAPVGPYAIAKAVGAPLSTIYTIIDDLVEKNMLTRSGDGAIWLGPRLYHYGLAYSRSLDFIGIATQEMHDLCREAGETVQVCGRDNDHMLVLAMAEGPSHFQVASRVGTRVPLNWTASGRLLVGHLPEKERMDLFAHCARSSPTGRAEVDARTLSDAAARAFQQRLSIQAGESDYAVACIASPICDRDGVCVATISIVLPEQKAFSDGNPYVGHVKASAERIEKRMGWRGH | 0.285 | | 39 | In | 0.831 | In | 0.48 | In |
| >3432046dcfbbb7e92c7690bea68a014f659416f8 |  | |  |  |  |  |  |  |
| AHHHHHHGSDKEFQQIIDKIQEDLYKIMGEIGSKGKIQGISKEDVEWIESLIKTYVEKIEIRSFVLPGSTLSSAKLDICRTIARRAERRLATVLREYGLGKLSLIYVNRLSDLLYLMARYIEIKEGKLREVKR | 0.332 | | 86 | In | 0.628 | S | 0.5 | In |
| >887df0c8884078e671ee11d86beb15afa584e257 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVRRIAQNETFHGTAAGQAPNVADLAHTFNLSERQAQCVALLRMGTPVQGVAEVLSISTSTLEKHLADLRRTFAVETTTALVRAVTELIPDDQLDAFHCWPSATNAMLPGGATDRTFAARLRTSTSVEQALAAVKETLSEVGAQHVYYCFLPHSVQGFLRGDIIDAFLAPPQIEAAFRANNGLAGQPAALSLFNAPVSVPSVALDPMGQPPTLAAFYRACQDDGARHMMVLGFPAGPGFVGMAITLSAADDPSARIADMAEDIRATAMAMHGAVLTNGTLAARVRLTVRERDAVSALARGDRAADAARSMKISERAFAKLLASARGKLNARTNAEAVGKAAIINALVFL | 0.181 | | 21 | In | 0.92 | In | 0.4 | In |
| >acd17c9fb2cb50c2c611b45459541995c7aae1ae |  | |  |  |  |  |  |  |
| MIDAQMSERFPARINILAVNSPGSLAEITQVISANDANIQNLSFIRTAPDFTEIMIDLEVWDLKHLNRIFSQLKKAGSVSTVRRGHGLEHHHHHH | 0.697 | | 24 | In | 0.626 | S | 0.5 | In |
| >2a93ffc6aae4b7d313dbfb1010a7f77398129f76 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRSILKDRNRSGKEGAVAEAEDTINRRARGLDRAFEILDFLRLQRQPLRPNEIAQGIGAPRSSVYELVNLLIRQGIIEYRGDDGRVFLGRKLYFLGAAYAEQFDLMRESEHLLARIAEETRETAQMCQLEGNKYAVVLMNEGSRPFRISTNIGEPVAIPWTASGRLLVDHMSDEEILALIPQEDFVLPDGTRLEPSEFIAQVRNAKKEGYFTFNSIVDSFTHCFAVPVYDAEAICIATLCLVAPKEDGLRNRDAYLRVLIKGAGELSEKLGYRNDHAASMRTASGG | 0.196 | | 56 | In | 0.818 | In | 0.07 | In |
| >e9cd6b7e9cba03c5619a5fcabc1ddd1bf9c239de |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIQLRAISRGMICGLLLSQLWSCSSTPLEPTAIEVDALFDDSLFKPVTNIPSVEDIFSLPSSVAVDVKRTYDRYAISTKNPLAVHEWLASYINANQSNGHSDFRYQDNLTQTASETFEQRAGNCMSLVVMTSALADIFNIGTEFQDIAIEPVWDKQGDFYLINGHVNLRLLPAQSVHTVYVSTHAILVDFMPERALRGLAKVQINRQTLTAMFYNNMAAESLVEGDLDHAYALVKAGLKSGHFSPALNTLAVIYRHKGDEKRAEQVYRYALKFDPDDMTTLFNLAVILDNQGRLEEWAQIHKKLELARIRNPYYYYDMGEQAYDEHQYREALAWYQRAVDKADYRHEFFFGLSRTYWALGDEKRAKQNMEKALALSREAADKHRCQAKLQAMRQH | 0.266 | | 40 | In | 0.664 | In | -0.38 | S |
| >b289e55fa0c3ee1a5020f53ce4b41fe11c103a87 |  | |  |  |  |  |  |  |
| MGDQDGKKKPPFDMPPPPKPLSFEMPKPPVLQPNIASLLQKTNTTGEDVKSKDAQPSVTPVPPPTFNPVPNPFAPRPKSVSPNPHPDVPAVTVGALSAPADKSETEGEKIEKPSETAQAHVENVKKPEKPSSLGTHPLTTEIPITPMVEEAKPITSPAVVEVSSHAESVKSSIDSSNLFTDKVDMSGGLMSWLTKTVTESKLLSDVAGKAKAGVETVMTTLDPGMKPFLAEHGVIEFALFNCDADLLTVASDAFTKSGAMAICRGLTSVIANFRPLVAGEEKARKMCEIKVEAARKTNKAKEDAAVVVIQPFLMEISGRYYSTCKIVLHHESKYFDAISQLLEIPSTLVEVIQRAAKSEGLPDDEFSTSVTQAIKNVYKTSVTTWEPGSFAPYDSKELLSIAFASVSQQLLRNLAPVN | 0.616 | | 100 | In | 0.963 | In | 1.12 | In |
| >e084578a690e906703445ebd77bcb3d1a744b596 |  | |  |  |  |  |  |  |
| MAHHHHHHMNLPVYNMESISECDILKPIDESERIELENKINEQMVELEVKKKYLEELKKRQHSVKEKNNIHSFNNVVEEYPDPNKMLCNFLESLENNTNDNNNHHHNDKESKEQVNDLSIYSEYDYDNKKKTTKKENFTYTEQFFTHPNSMDNIMMNKSFLFQKKKNSIPNFNFHIDLFNKQTKNVIHIQPKGINYFDKSIQVDLLENNEIYLLDNHINKKINKMEKKENIEKMENIEKLGNIKKTSLCYSTEDKSEGDSKSHHKNKIKHTNDTSIHNDDKKKEIKGGNKNNEINKNLEENYNKQNGHHNYIYDENNTTFNYNDNKNNSVYVEHNDNRFNAYNNSTHLKSMNVEKKKDEILKSSSFLYFLENSSKIVERVLGEQDLFDCTYTYDNNDMLENTQDVDKLKLMNTYYCKKYINGRGITDVRTSNIYNELFLASYGLSECSNCIEPEGYVLLWNVTMKNRPEYVFTSESSVCTALFNKFHPHLIIGGTYTGNVVLWDIRASLKPIQQTLLTSQGHMHSIYCAEIIGTQNSHNLITADTDGRLCNWSLSMFTYPSNTIDLKKGNREISCTTFAFPEGDINTLYGGTEDGTLFQAQIHGMKVGIINSDIIHDGPITSAQFHPSLDEMNDNNDLILTSSVDWTCQLLSIKNIKNPLIVFDSFEDYIMDIKWSPTHPALFSTCSSNGKIKLWNILYDTESSFYEASLDNSSTNKLAWSHDGKRLIAADTQGCLTLWNASSEIYQPKFEDLNKFDEHMQTLKAERIADTTSEKET | 0.368 | | 81 | In | 0.986 | In | 0.39 | In |
| >507015649ea926522ff252a3efb000ef99697033 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIFMFENSSEELAYHKLLILYILEKIKMDLTNSQITQVVLETEMMNYFSLQQLLSQLMESKFLTTYKDSDREYYALTQRGVESLEYFFNRIPTSVTEKIDKYIDSNKENLLADTQVKSSFVKQSDNEFIVNLRVIENQSNLIDLNLNVSSEKQAKLICNNWKNNASYMYAEVIDLLIRDIH | 0.155 | | 71 | In | 0.528 | S | -0.86 | S |
| >350e613b9166192ea7ac183a370da9ac06ed2fc3 |  | |  |  |  |  |  |  |
| MDIKQTAVAGSLESSDIMVTVNPSDVQGITVQLESSVEKQFGQQIRKVIEETLKHLGVKAASVEAVDKGALDCTIKARTITAVHRAAQVEVYDWKEIDSWNA | 0.454 | | 97 | S | 0.702 | S | -1.34 | S |
| >85b29d748c1b86f699f420bd2f3efcf793fc4839 |  | |  |  |  |  |  |  |
| MATTGEKAIYEDQNNVNIIENVVDVANGINESPKTLFEEDGSSRDSGVSMTSCSDKSDASPEEDVDFSKLESGRVALTDCSNFVSILQRNSSVSSSRSSSFYNYDTPTGRKMKTVFDLDSLDHSEYEKRVMSERPTDNHRKRTSSSMSPSVTLLDRKRSRNLSLVAPQSDKSCRYNGLNNPRDDPFGDEDDEVFEQSNVRNSQVQNTSIFAQPAPRTATSLWDLAPPMFFERKTSDTSGNGSFQERPKQILRAMSVGEIDSELPPTLEVKYTLPGVDNPQRESQAFRSISPTTLLLEFQRLGDDFDKKYIIVDCRFPFEYKGGHVKGAINLFRHDKIKPIFFPENGEASSFQNRVPIFYCEYSQKRGPTMAHAVRSIDRVLNELRYPHVEYPEMYLLDYGYKSLWSTAECRQICEPCSYIPMTHSSFSMEFKSARLERHHSMASLKPNGETSHREEKKKRCTRSVIRRNNSSLNMLSRSSSALTSTGSKTSSMENILYGLDDERRPKWVSAFDIQSTESENDLDAALIYQRNISSNASNASSIVNLAEERIVQLGLQVITPDFPDRPSESSSTTPAGEHLPLGEGGHQIPCGILDFSSISDDAE | 0.568 | | 76 | In | 0.987 | In | 1.2 | In |
| >be236cd3403b78a3ae680f0048035fb167ce5ea7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEKALELDGEYPESLRDEFNIPTFKSMGLSSDDKPVTYLCGNSLGLMPKSTRNSINAELDAWSDCAVESHFKHPEEARGKVPWVSIDLPILPLLAPIVGAQENEVAVMNSLTANLNSLLITFYKPTEKRFKILFEKGSFPSDYYAFYNQCKIHGISEPENVFIQIEPREGETYIRTQDILDTIEVNQDELALVCLSGVQYYTGQYFDIGRITSFAHQFPDILVGWDLAHAVGNVPLQLHDWGVDFACWCSYKYLNAGPGGIGGLFVHSKHTKPDPAKESLPRLAGWWGNDPAKRFQMLEVFEPIPGALGFRQSNPSVIDTVALRSSLELFAKFNGINEVRKRSLLLTNYMTELLEASKYYKHPLRIEKLPCFFTILTPTSTDEEHGAQLSLYFDSDTGKEDIMPKVFQYLHDHGVIGDARRPNVIRLAPAPLYNTFSDVYIAVNALNEAMDKL | 0.2499 | | 61 | In | 0.5 | In | 0.01 | In |
| >99fdcb9474a210f516b375d12b7b91b98f58d1d9 |  | |  |  |  |  |  |  |
| MKVLIVESEFLHQDTWVGNAVERLADALSQQNVTVIKSTSFDDGFAILSSNEAIDCLMFSYQMEHPDEHQNVRQLIGKLHERQQNVPVFLLGDREKALAAMDRDLLELVDEFAWILEDTADFIAGRAVAAMTRYRQQLLPPLFSALMKYSDIHEYSWAAPGHQGGVGFTKTPAGRFYHDYYGENLFRTDMGIERTSLGSLLDHTGAFGESEKYAARVFGADRSWSVVVGTSGSNRTIMQACMTDNDVVVVDRNCHKSIEQGLMLTGAKPVYMVPSRNRYGIIGPIYPQEMQPETLQKKISESPLTKDKAGQKPSYCVVTNCTYDGVCYNAKEAQDLLEKTSDRLHFDEAWYGYARFNPIYADHYAMRGEPGDHNGPTVFATHSIHKLLNALSQASYIHVREGRGAINFSRFNQAYMMHATTSPLYAICASNDVAVSMMDGNSGLSLTQEVIDEAVDFRQAMARLYKEFTADGSWFFKPWNKEVVTDPQTGKTYDFADAPTKLLTTVQDCWVMHPGESWHGFKDIPDNWSMLDPIKVSILAPGMGEDGELEETGVPAALVTAWLGRHGIVPTRTTDFQIMFLFSMGVTRGKWGTLVNTLCSFKHHYDANTPLAQVMPELVEQYPDTYANMGIHDLGDTMFAWLKENNPGARLNEAYSGLPVAEITPREAYNAIVDNNVELVSIENLPGRIAANSVIPYPPGIPMLLSGENFGDKNSPQVSYLRSLQSWDHHFPRFEHETEGTEIIDGIYHVMCVKA | 0.248 | | 32 | In | 0.613 | S | -0.37 | S |
| >d6f025ae51241fbeaa969c171dba81b1e3dccb35 |  | |  |  |  |  |  |  |
| QLNKLSLTGIESTLRFAQIALDSTERLIKLQLEASKQSLEDHTKAAKQLTEFKDSQEAINHLNKLATQSVDKLVSHSRNLYEVVSGAQSELSKLVEDSVGQFNKSLISSIESVAKNAPAGSDATLNAVKTSVAAAAAAVNTFSKAAQQVAEFTDSSVKAATSATADAV | 0.757 | | 96 | S | 0.638 | S | 0.36 | In |
| >9cc166a47ad8c7ba1e6b3cb0da52336b6e48af0a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKLLFKKVIKRATIFRIREIIEGYHSLAVFEGRYYVTLKDGRIAGCVSLVERGWYMTEIKHLFVKEEYRASGVGRFLLEEALKKVFTPLVCCTVRSDNKRSADLFLKNSFDIMGTFQNSMTDREIFLMVRNLQQKE | 0.148 | | 60 | In | 0.551 | S | -0.13 | S |
| >5e614011672d081bf58e155abb2417bfc47ad427 |  | |  |  |  |  |  |  |
| ERRRAEEALRQSEALFRNLFEHHAAVKLIIDPVSGAIVDANNAAVSFYGWSREQLRAMNIRDINMLSPEELVSELENTKNMERIHFFFRHRRADDSVRDVEVFSSRIEVKGREYLHSIVHDVT | 0.284 | | 88 | S | 0.598 | In | -0.56 | S |
| >637899621bde3d19775447e62be27741cb130770 |  | |  |  |  |  |  |  |
| MVHIRFHSVYGSTARYAHELARRLGTTACDFDTPVPHDAQPLVVLSPVHGPSIPAVKFARSVSPREIAVAAVGMTLPSVARSKDCLASMVPASWGRFYLPGSLKYSTMQSGHKATMASIVALVAAKPMKSANDKSMISMFQRDTDWVDFSELDAIQHWVLERQNCV | 0.448 | | 45 | S | 0.827 | In | 1.65 | In |
| >65548736355bef1a7b63c03e1811b3050b971105 |  | |  |  |  |  |  |  |
| SLKGPGAEPFYIRANLTLPERADPHAMCVKAQEILRLVDSAYKRRQEWFCTRVDPLTLRDLDRGTVPNYQRAQQLLEVQEKCLPSSRHRGPRSNLKKRALDQLRMVRPKPVGAPAGDSPDQLLLEPCAEPERSLRPYSLVRPLLVSALRPVVLLPECLAPRLIRNLLDLPSSRLDFQVCPAESLSGEELCPSSAPGAPKAQPATPGLGSRIRAIQESVGKKHCLLELGARGVRELVQNEIYPIVIHVEVTEKNVREVRGMLGRPGWRDSELLRQCRGSEQVLWGLPCSWVQVPAHEWGHAEELAKVVRGRILQEQARLVWVEEG | 0.718 | | 85 | S | 0.624 | S | 1.8 | In |
| >ac57fc4ce58b8f5fb6c2d31b84003150f4d1cfd4 |  | |  |  |  |  |  |  |
| MYHGQLKNILLLSLRFIMDKLSYASDSSTSAWNTYLQQIERVAPYLGELSPWVDTLRHPKRALIVDIPVQMDDGTIRHFEGYRVQHNLSRGPGKGGVRYHPDVDLNEVMALSAWMTIKCAALNLPYGGAKGGIRVDPFSLSEGELERLTRRYTSEIGIIIGPQKDIPAPDVGTNGKVMAWMMDTYSMNHGTTVTGVVTGKPIHLGGSLGREKATGRGVFVSGLEAARRANIAVEGARVAVQGFGNVGSEAARLFAGAGARVVAIQDHTATLFNATGIDMKALTAWQTEHKQIAGFPGAETIASDAFWRLEMDILIPAALEGQITRQRAEALTCKLVLEGANGPTYPDADDVLASRGILVVPDVVCNAGGVTVSYFEWVQDMASFFWSEEEINARMDKIMTDAIVHVWEKAAEKSCSLRTAAYIVACERILLARKDRGIYPG | 0.492 | | 21 | In | 0.519 | S | 0.53 | In |
| >c887aa81f9146b9654b64b7798a3d7d91ca5d2b8 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMANSMANSMNGRADFREPNAEVPRPIPHIGPDYIPTEEERRVFAECNDESFWFRSVPLAATSMLITQGLISKGILSSHPKYGSIPKLILACIMGYFAGKLSYVKTCQEKFKKLENSPLGEALRSGQARRSSPPGHYYQKSKYDSSVSGQSSFVTSPAADNIEMLPHYEPIPFSSSMNESAPTGITDHIVQGPDPNLEESPKRKNITYEELRNKNRESYEVSLTQKTDPSVRPMHERVPKKEVKVNKYGDTWDE | 0.741 | | 97 | S | 0.889 | In | 2.16 | In |
| >88023661074ad6addbafb5736a687d34d2017d42 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTIQKLLHDMQMSRYRLSKISGIPWATLADIYSGKTHLHRCGAGTLSKLSKTLGLSIEELLALETEPEKNTAAGQPNIKTYLETGLSESVQKAIKDYLQGEKAQVLYLDCLWNELYGAINADLWAGLITEEQASYLRAKYLGTEGKEDGSDD | 0.147 | | 78 | In | 0.848 | S | -0.39 | S |
| >ad6d85b8745114488d7113db72c1907188e44f62 |  | |  |  |  |  |  |  |
| GPGSMARHPQWRLGVLHASHQRHQPRPVRLILFPHIPPPHPVAVQPRVHNVVKSRRQYAQCDVKRLPSAPGRAAPETPCQRRLTSHWTTSESLFSLLHEFGPVACDPTRKSQQAWGFASQPHVLPPTTAATAPRHPAQLHFPALKYLDCHRRV | 0.68 | | 94 | In | 0.891 | In | 0.41 | In |
| >182a0a8872a4b431af74168ccd5df82f6179dc63 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSTDTCIKRPTRSELVDRFQKKIRAGEPIIGGGAGTGLSAKSEEAGDIDLIVIYNSGRYRMAGRGSLAGLLAYGNANQIVVDMAREVLPVVRHTPVLAGVNGTDPFMVMSTFLRELKEIGFAGVQNFPTVGLIDGLFRQNLEETGMSYAQEVEMIAEAHKLDLLTTPYVFSPEDAVAMAKAGADILVCHMGLTTGGAIGARSGKSMDDCVSLINECIEAARTIRDDIIILSHGGPIANPEDARFILDSCQGCHGFYGASSMERLPAEEAIRSQTLAFKAIRRQPA | 0.237 | | 38 | In | 0.685 | In | 0.29 | In |
| >e61468d76be8c55b8a49c32ae184bdafd98c84c3 |  | |  |  |  |  |  |  |
| MLENVKKSFFRVLCLGALCLGGLMAEQDPKELVGLGAKSYKEKDFTQAKKYFEKACDLKENSGCFNLGVLYYQGQGVEKNLKKAASFYAKACDLNYSNGCHLLGNLYYSGQGVSQNTNKALQYYSKACDLKYAEGCASLGGIYHDGKVVTRDFKKAVEYFTKACDLNDGDGCTILGSLYDAGRGTPKDLKKALASYDKACDLKDSPGCFNAGNMYHHGEGATKNFKEALARYSKACELENGGGCFNLGAMQYNGEGVTRNEKQAIENFKKGCKLGAKGACDILKQLKIKVLEHHHHHH | 0.747 | | 100 | S | 0.648 | S | 1.86 | In |
| >a197012ecbd9eb37422f5fe5df30ddb7d405730b |  | |  |  |  |  |  |  |
| MSLNQERSLPQGTIRDYPDYPLRGFMIDCGRKFIPMAYLQDLVKIMAYYKMNTLQVHLNDNGFKQYFEHNWDKTYAAFRLESETYPGLTARDGSYSKKEFIDFQKQAASNFVEIIPEIDVPAHSLALTHYKPEIGSKEYGMDHLDLFKPETYEFVDALFKEYLEGDNPVFVGKRVHIGTDEYSNAKKDVVEKFRAFTDHYIRFVEGFGKQAVVWGALSHAKGDTPVKSENVVMNAWYNGYADPATMIKDGYQLISIPDGLVYIVPKAGYYYDYLNEPYLYKEWTPAHIGKAVFDEKHPSILGGMFAIWNDHVGNGISVKDIHHRIFSPLQTLSVKMWTGAQTGIPYETFNEKRALLSEAPGVNQLARIGKKPELVYERSTVAPGSTSDYPEIGYNYTVSFDITGAKESEGTELFRSPNAVFYLSDPIRGMMGFARDGYLNTFPYKVNPGEKATIQIEGNNRSTTLRVNGKVVDEMNTQKLYFNAGKDSMNYVRTLVFPLEKAGNFNSKVQNLKVYNYCVSKEGHHHHHH | 0.62 | | 42 | In | 0.606 | S | 0.77 | In |
| >ef11df9f2584d91bed8199f21aa9d1c36813475b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGIITLQPGEKRPLAGYARHYYYEYSYVISGEAHTILEDGQDLVGKAGQAQLIEAGEGHINYNNGLEPAVVVWMLVERTK | 0.1 | | 68 | S | 0.759 | S | -0.53 | S |
| >44ca04ebe882a0b4a9b5b70110fc283d2e2f7490 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLIDYLDLLRRHAASPSFEQFALEVAQSPAMLRYLDNDQNRRGKPNENFSRELLELFTTGIGHYTEQDVHEGARALTGWTFEGGRGNQRYLEKPRFVFRANQHDAGQKTYLGKTGNLSGEDVIHLAATHPQTAVFVSRKLHRAFVRDTPDEAAVAASAETFRRTKGNIRAVLEELLASELFFAPENRAAIIRGPVEFIVGAVRTLGQPRLDAKQLLNLAQTAGKMGQLLLQPDTVKGWDGGREWINDSALLTRMQVAAALTLGGKAPDLNVYPSVLALLGTERSPLGATLDSLAPKQRTYLTLISPEFHLA | 0.178 | | 26 | In | 0.549 | In | 0.7 | In |
| >9f30cf45b6b7985f1ce55302eef827ae1725b52f |  | |  |  |  |  |  |  |
| MSKQNVPSYGGQAVVEGVMFGGRKQTVTAVRRIDGSLEYFYLEKHSPVWVMRMKKIPFLRGIVALIESSAIGSKHLAFATDRYDEDPNNPVEEEKIEKKESK | 0.557 | | 82 | S | 0.551 | In | 1.61 | In |
| >3e09bccf88a5a0962dae39db007235ccb8baa91e |  | |  |  |  |  |  |  |
| MPFEYIWTVSANGVACRIPSPSDPRCISEIEWKEIPCSDGSAICTIVASPTSAFAIDRSGRVLILVLPTHLAIRERAEIYNNQRWIGIWRGTFFIDRPRFSDESGRVSIDPSANEIDPGWSWEDNWHPHLDPRKYDKEGWQYSLSFLAPKWDKQCRMYHLVRRRVLKRNVRYTSHDQWIEMSNEETRMFTELAIGGMDVMGEGGMILFALGSDGNIYRRDGIHPSCPSGRSWQLISKVTFKDCESDDVTLISASPSLATLMAITWDGKMFHRVGITRQNQNGFSWKSIPTPKNKAVISASIGTRTMWCITADGCVWFVRLDIDEKLKEHKMENITSESYQMTTQGGISKISVTRNDQVFCVSTREKIEVRTGIEPREPSGKRFERIVDRGEPNDQKWISIHTGSVLFDKIPDYFMSSSSLKSKMEVLQFKKADWRLQILERLQETSDRSWSLMNSVNGVGIDSPEELEGPNTPRQIRCQLMQGELFRSVNITILNNNLQIYGDNSLSKSIDTSSIKSVLPCFQRLPQKYLLYVFIGANSDSECFAFTDEKSRTTFQSILETIIRDYICSSTRNSFGDCMWSISSEGVVRWHCLAEMSKESKFEKRVNPGESRGLVVDGLFESVDCGVKGSVWAINQSGNLYSLSSNYNPLSSHSTTHDYKMTDQITLKMFEYQKHAVFRGFISFQGSQKGISAWMCDNKPCPPSPSSLPSTNWSWIDSAWQLEEDTWKYSNNIDGVYSYNEKAQGKARRRVWRRQAKFELNKSPWCHVESPPIQCVRVSKIESCEGTIVVVVLTKDGHILIRNGVDREHFTGTNWTEILTDSPISSMHLQWEGMKLWCATYDGTILSRSLTNSKSSSFLSSSDWRHLDLDTSVITDNISPKAVNDIELTGYSDILYVRIKFILFRIDTKNETISDAYPMDNLQQAVVSARGSICLRGTNITVVRDWRVVPYTDRKATIIAMRDVERATNMGCRVESIAFY | 0.397 | | 21 | In | 0.99 | In | 1.4 | In |
| >7bf54924baedc2937d7d8772df50dacc8ac1cb80 |  | |  |  |  |  |  |  |
| MAHHHHHHMSLSTSFSSGAGGGSTSTAIHTKFLEITGHPLGLENYGNTCYCNSVIQLIYHCAPLRLRLLELYHVYLTKKGKPGFEEDTVLFQLCSLIAVMHKSNNRTKDKYPREKIAPKDLLNCVRAKNEDFNNDMQQDAHEFTMFLLNDIWDTEQRIMADPANVNLFLKYEASLKKKGSLSFSWKHSKDKHISSHSHKENRLDKTTLAAATNSDVGTNGGKAVDAQQPFSGELTPLQVILQGQFGSLTACLECENVTAREEVFMDLSLETAQGTSLLRCLDHFGDPEYFWGKNKLRCEECKMPVRAAKTIHVQQLPQYALLIHLKRFQYDVEKQIFTKKADHVALPMQMDVEEYLTDPEVIEQSLRNKQARTQKNSGVDAGSSTSGHNSSGSGQKDEANATSSPDTFKPASEEVRRKLRGVARHKARFELTGFVAHIGEGPNSGHYFTCVRYGPQLWRRFDDETVSTMAERDVKQYFGVPSDAVGVVTTTAYILLYERVA | 0.572 | | 74 | In | 0.977 | In | 0.7 | In |
| >8099226d7b7c5709e1ae41749b13a9b3ac808ee9 |  | |  |  |  |  |  |  |
| MSIEATLLARCESKCELCSSESPLTAYAVPPHGNVTVDTAIMVCDKCHSEIEEPKDINHWRCLNESMWSQVPAVQVTAWRQLTRLNSESWAQDALDMMYMEEEQKNWAMTGMSADDKTVDCNGTELKKGDDVTVIKDLPVKGTNQVIKQGTVIRGISLGDDPKLISGKANGGQSMYVIAEYCRKKLEHHHHHH | 0.721 | | 95 | S | 0.672 | S | -0.62 | S |
| >c9521e3e181565b9c02654e353b941125ec899cb |  | |  |  |  |  |  |  |
| MKNKDNVKQIDGNKEEEKDKKDTRRILRLEARVTEDEYAKAAELAQSCGLTMSDYVRRTALGHRPHLRLTEREVEALCSLSDARGDLIRVVAAVKSIQADKRAIYFSDTRFVEQWMKAATKLINRWNQIEAYLNE | 0.361 | | 95 | S | 0.518 | S | 0 | In |
| >0ec3454d7218102ec4de3e9e05eb36f5fd32307a |  | |  |  |  |  |  |  |
| MYRVLVVDDDVAVRYMLKRYKGWESFGFVLAGEASDGREALRKLDKEPFDVVISDIKMPGMDGIELLSELRNNGNDICVLFLSTHSDFSYAKQGIRLGVFDYLTKPFSDETLGEALDRVKVYLDEKKKQKALVNIYNKNALESSQVYYSKNDEKKLVSVILSGSLEAINLGDRLFEKMAQFTEGDAKKLAILMENILLEVDEGIYKAIPWIKNLKNRPSNKSFEGMDEKELKERFIDHISGWVRLVVKFELHQSDSLMRKICEYVINHVEEDIKIENIANELYVSRDYIGKLFKQKAGYNLSEYITKVKMEHAKYLISKGEYKNYEISEILGYKKADYFSQVFKSYVGCTPSEYRKNAGFDF | 0.393 | | 94 | In | 0.938 | In | 0.23 | In |
| >796284b5873e502bfe398beb1f43fac002c33165 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHGQTKIQKYAGTAMPYPNRTDSSITFRDGMTPFYINHLGRHGARFPTSRKALDKVEKVLVSAQQENGLTSEGMALLSMIRRLSRLFDGQWGKLSKLGETEQEGIAGRMIRNYPQLFSNSAKIEAIATYVPRSINSMDAFLSCMIRHNPALQVQRSEGKQYNHILRFFDLNKSYVNYKEKGDWLPIYKAFVHKKISPVPIMKKFLLNPEQYLDKEAEEFVMALFSVAAILPDTSIPLNLEDLFTLDEWHRYWQTQNLRQYMSKSSAPVGKMLPVAIAWPLLSEFIRSAQEVISGKSDYQANFRFAHAETVIPFVSLMGIEKTDVQVCRPDSVSVYWKDYEISPMAANVQWLFYRDRDQRIWVKILLNEEAAALPISTACFPYYSWEKTRIFFNQRIEMAKKTLSVFNE | 0.161 | | 25 | In | 0.964 | In | 1.36 | In |
| >d26a7a15d1dc2d9bd25b96843bc3b2f45749891c |  | |  |  |  |  |  |  |
| MKNKYISKLLVGAATITLATMISNGEAKASENTQQTSTKHQTTQNNYVTDQQKAFYQVLHLKGITEEQRNQYIKTLREHPERAQEVFSESLKDSKNPDRRVAQQNAFYNVLKNDNLTEQEKNNYIAQIKENPDRSQQVWVESVQSSKAKERQNIENADKAIKDFQDNKAPHDKSAAYEANSKLPKDLRDKNNRFVEKVSIEKAIVRHDERVKSANDAISKLNEKDSIENRRLAQREVNKAPMDVKEHLQKQLDALVAQKDAEKKVAPKVEAPQIQSPQIEKPKVESPKVEVPQIQSPKVEVPQSKLLGYYQSLKDSFNYGYKYLTDTYKSYKEKYDTAKYYYNTYYKYKGAIDQTVLTVLGSGSKSYIQPLKVDDKNGYLAKSYAQVRNYVTESINTGKVLYTFYQNPTLVKTAIKAQETASSIKNTLSNLLSFWK | 0.593 | | 93 | S | 0.683 | In | 1.24 | In |
| >f18294310e262ece9e56a36deb2755dc02178ebb |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQPFYFKQFGNLEMGTKEHILDIAESLFNANGYTAVGVDLIRDTACVSKTSMYRHFGSKNKLILAVLVRRHLRFEDKLGGAISPEMTMEEKLNALIDWHFKWFNAEDFHGCMFMHAMSEFKESDDAIADSASMHKKWLKALIKQIISNTPNDDEQLAESKAESIMAFIEGMIVRAEFDDITSFRPIYRFAIQTLSKTNF | 0.116 | | 85 | In | 0.637 | S | -0.52 | S |
| >f8911a40adc8e2200b3656173b7d24f7c681552e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAFDIPSFHRRAVETRSDEHVDDMRSLLVDTLEDAGEYPEIDDLGNVVVSRGDEDGTHILLNTHIDTVPPHLPYERRTEPPGPDETIDGTGGDGDGDIVCGRGACDAKGPLAALLDAFLTVTPDDGRVTLAISTDEETTQTGGAHLADTIDADGYIVGEPTGLDVCTAARGQFEGTVTIHGESAHAADPGSGHNAIRAAAPILQAMESYEEKKGPGEHETLGYPILTPSMVEGGEATNQVPAECTITFDRRSVPPETSESFCADLQAHLEQWLPESMGLTVDLIRPDTPFPEAFATDTDAELVRTLQEASGGGVRQFGAATEASYFANNGPTVVFGPGDLSDETGAVAHSKREYVRLSEVRTAARAVRETVERLV | 0.395 | | 93 | S | 0.773 | In | -2.33 | S |
| >95063065692f75891f946fbd0f27a66ba373eba9 |  | |  |  |  |  |  |  |
| MSLEKYGNVNDFLDDDLVKNGNPDVYIVVGENSATPDVTSANKISAKIGTMTYTEKVVEDTSTTGYQIIGESESINLLDGTDKLDSAGTKKSWILVIGADDSYSDYFDDDEGNSFSYSEFSEADKTRSLGELGYLLKLYDIDPKNHFESDDDASELVFVRITDSDKNANSQTYNIEKDMVYVSIVYPNQISAFKLAKELEEGYEIPFLGDKYRIVKIDEDDDIIYLGTASYEGTIAHNEYISSGEYQVVLGEILENEDEYRVEISVLRNGNMIEEHTETLSSDKSFSFIAGKIGVTVHDVWLNTAADTGYADITICKSITELELGEEYIENWEIRAVVNNDGNIDFLKTYEDKTVGIALVYNGNDIERIKDGDRIEIADYVNLVFDDEDDLDKMIAEFTAEKTVTTGSTGGTLVTTSGKVPEVVLDSEIELDETDKNLILIGGPVANHLTKELQNKGKIDIDNESPATAVLVEGAANGNNVLVIAGGDRYSTESAVLSIMNLIEGHHHHHH | 0.443 | | 86 | In | 0.557 | S | -2.74 | S |
| >243048bdf552e18fbae52fdc4cdd3682a28b77d8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSILTEAQAKAILDKVIKLSKADECTAQLTGSIDGNIRFALNNVSTSGIVDNTDLQVQVAFGKRVGVATINEFDDASLERVVRRAEDLARLAPENPEFMPAVDKQTYTASPTFSESTAAIDPAFRAQVAADSIAPCKGKGLIAAGFLEDGQSFTAFANSKGNFGYQRGARFDYTCTVRTEDGRGSGWVGRNLKDAADFKAEQDVRIAMRKASDSAEAKALEPGKYTVILEPAAAAGLISFMMRYFDARMADEGRSFLSKKGGGNKLGEQVYDPRVNITADPWDPRAAVLPWDEEGLPREKMPIVENGKIANLQYSRFWAQKNGKRAIGEPGNLLMAGGEKNIAELVRGTEKGILVTRTWYIRMVDPQTVLLTGLTRDGTFYIENGQIKYPVKNFRFNESPIIMLNNIDELGKPVRVAGDESSYVMMIPPMRLRDFTFTSLSDAV | 0.372 | | 41 | In | 0.54 | S | 0.83 | In |
| >5d28b2168da9c18d6f10edaf1f5019db1b0b6ef2 |  | |  |  |  |  |  |  |
| MAHHHHHHMPKNLNLFGKYLRRLGKSHKKGFKKKQVIHPVPVKAYGRVPSAASQTGLYHDEDYNYYTKVSYSLKKTRIKLKPNVFKKHIVSNILNTIIPNVKVTTSALHAMDDAGGFDNYILRTPPEELRSNFGEKLKSVMYFYMSHPNVRSFSLPWKIFMSKFQQSDYYYAIYQHLRKKRLHELYKEKESAQFSPYYLPNEKYLHPQRQPFSINTEVSNLNLWYNKNKLLRKAFVDKLKQAKSFDKAYTDHHFLDSYRTGRGRGGGGKHGRTPRKRSKTYKYFEIRPY | 0.42 | | 44 | In | 0.933 | In | -0.77 | S |
| >6f8994c9625b7f3ab468bd9c8328499cda9bccbd |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAGLPNSSKALQQWQHLFEEKGESRTEQARQHLQQMLRLGLPTRKHEDWKYTPLEGLTHSQFIQQCATISAAQRDALALQIDAVRLVFVDGRFMPELSDSTQNSGFDVSVRDERQALAAPVQPEVFLHLTESLAQCVTYIQVRRNQRPTRPLLLMHITQGVDGDELNTAHYRHHLALAEGAEATVIEHYVSLTAAKHFTGARLTMNVADNAQLRHFKLAFENASSYHFAHNDLLLATDASAFSHSFLLGAAVLRHHSSSQLNGENATLRLNSLAMPVKNEVCDTRTWLEHNKGYCNSRQLHKTIVSDKGRAVFNGLINVAQHAIKTDGQMTNNNLLLGKLAEVDTKPQLEIYADDVKCSHGATIGRIDDEQMFYLQSRGIRQQEARHMILYAFAAELTEAIHDSALKQQVLARIGQRLPGGLV | 0.191 | | 47 | In | 0.895 | In | 0.04 | In |
| >2bc3a4027156bc78f31cb87a070a480c2d4a4944 |  | |  |  |  |  |  |  |
| KTGVATRVNLEYNFFKNFIVGTGLGFIQKNYEYKKTDNITGTHTLYKNNFMDIPLNVGLYLFNNPHKENGIWLKVQGGVFYEYFTKMHRKGEYPIFAQLQEDGSYIKAQVNETYDFKRNENNLKRNLFGIEGTGEVGYSFNRIDVFASYTYQYGLTDIYKAKTSSNRKSKRISNIISLGVAYKF | 0.6 | | 4 | In | 0.628 | In | 1.67 | In |
| >7f877216f7d110d3b82a86939273a8ee6e47d2e1 |  | |  |  |  |  |  |  |
| MLIHYLQQVELTLVLTNDPFEADHYLAQRVDLSVYEYIQSCMEHSKKVFTDRRMRSESSPTTHLQPHRIMVLSRNRYESIGLRGKFFKNQKKCYSKNCNHKKISEAFLAKSVTNLAYQY | 0.168 | | 55 | In | 0.803 | In | 0.29 | In |
| >0bbb20ca9c526b714d367a27b82ab27fef80d953 |  | |  |  |  |  |  |  |
| MDEIQIPKKVELQTKLENEKIVLSKGSTTIIVGANGTGKTRLAVYIEEQLKEKAHRISAHRALKLNPNVNKIPEKSAKTYLSYGQNWDGIDVSNRKNYRWDNNSYTHLLNDFDWLLQYLFAQQNNIAVANNQKLNRNEKVTNSKTKLDILQEAWETLLPHRKLHITADDIQVSAVDNEELYSASNMSDGERALFYILGQVLSVDDGSVLIFDEPELHIHKSIISNLWDKIEELRPDCSFLIITHDIEFAATRVAKKYVIRNYYPTPAWDISEVPESNFDEETITMILGSRKPILFVEGNNNSLDIATYRYCYPDWTIIPKGACKDVIQSVSSLKKLSNEMPLLNLKCSGIVDLDSRDEREIEQLNNLGIYILPVSEIENLFSLTDVAKEILKLNQYSDEELLNKLNGFKSELIKYIDNELKDDKLDEFVVKQVRRKIDNYLKNIDLSSKITSTDMKKSLLNEISTLTEQKIETWISEIKNEIQRCIEQQDLDKLLTIYDNKGLLAKSACVLKGMRNKHEFESWIMRTLKGRNKDFIDAIRQKLPILD | 0.345 | | 79 | In | 0.957 | In | 0.02 | In |
| >abf20a714f85f0d089c898a03039ecb40d3e7682 |  | |  |  |  |  |  |  |
| MAHHHHHHMYFPPVPFASVSKEEQIKKNTKIAIEMIRRYKGEAPASYTRKHTATIEQLEKEIEALLGGAQKMRKPTTDDQPMDKLALMERCLRHALWSYHKDDGKYDFNEIARWVVYTPEDEVKLAQMKRQVEAKSKLAAYRAKRAEQGLPEAPAPQINWGEEYSSVTDRELVNEKRIRYDTIAANTMERDEAQIEAVLQQYRKPVQDKRLDDLVDLLERFKPVLAREAIMQRLTIKHLEGQLGVWRYMDWCPEVRDRAELEVDISGFQWWSPLEERRLLPVRLRSVNEVREIMAQTQSSKAAEASAHSPQASQSAGDGDRERLLKEVLALQARIHQRDDAPVEEKRAAH | 0.58 | | 80 | In | 0.976 | In | -0.48 | S |
| >c31b0525dd7e30cfeaa362a5922d8ef3a366e52e |  | |  |  |  |  |  |  |
| MATRYWGDEKHPDAIYAVYLRKVRYVPPQGYEGVPRYRAIDPDRPKTESSEMSGADHLEWESVKEKLIKAGTVERLVECLVGSDDMMDSRHFNVFFATYRSFTDSAIVLDCLLRRYETLENEVNGSTSALLVQNSIRQIVMCWLETYPEDFYDSDKDFAMLSSLLDFGGRNKLTELRAKARKQREVFKRIYDEGGMQAALPSLGQYVADMGFDPSDYPNNIKERVKMFDVGKENCVQIAEQLTFWDAALFKELLIHQCQGCVWSKRRTAGERVYTVKATIEQFNSVSQRVMTSIVLPDCRPEYRAKIISKWIDIARELRALKNFSSLKAVLSSLQSEPVHRLKSAWNSVPNRSISQFRELSSIYETDEDGDQGNARKILEQEGTAKSSPLRRPQLIQNCRRTKSDVNLAECQGTVPYLGNFLTDLAMVDESTPDYTPENLINFEKRRKEFEVLAKLRLFQSAARAYNIPMDRMFCAWFFFLPCLDENECFNRSLEIEKPPMHSTPDLSSSRINSSMLSNGSQSTPVKNSTLSRLFNSSRTSEDSGSHNGNGTWHQHSHSYSSSTNSQIPSINTGSSLNISDGGVPQHSRDSGLQCEDWIDGRLDGGPPGPVPLSGTSTLPRGSNTNTPSSANASWTGGSEFTPSSLFPYSHSRSKSGESSLQEVKTSMSTRASADGTSGTQSLSRSATPIRTRLAEVFDSKVFSHQKKGSDASSCSSSSSLSANGNSQAQNSFYLARVGLDDDLQNTDGANYKCIKIENGDRMPQLVARALEKHLIEDDKNTYLLVQLLPRGGEFVLPDNCNPFYAMAPDPTSPMLNLLLRKRDGNGTIEGGASPQLGPSAKKLNRMKRTNLLRWSSGYL | 0.572 | | 50 | In | 0.985 | In | 1.85 | In |
| >277d1e262911fa8bb3bf78d549e40258874a2087 |  | |  |  |  |  |  |  |
| MIFHIFQIDFIYSFLISFIMLKNLDEITSSIIADPQNKDFTERGIFPLFSAPKTARINIVGQAPGLKAEQSRLYWNDKSGDRLREWLGVDYDYFYNSGIFAVLPMDFYYPGYGKSGDLPPRQGFAERWHPMILGNLPNIQLTILIGQYAQKYYLPENKDNVTNTVKNYRQFLPHFMPLVHPSPRNQLWVTKNPWFEEQVIPELQILVKQIINKD | 0.361 | | 8 | In | 0.543 | In | 1.22 | In |
| >a30e9d59f657d672c993ac07bf1c7ed585b179e8 |  | |  |  |  |  |  |  |
| KAHKLRNRLPLPKVTVALPESARLADFADIIRDEVNVKEVALTSDVDSVGRFDVVVNAKVAGPRLCKDVQRAIKAVKSGNYERRGDTVVADGIELVAGEFTERLVAADPDSTTQIDGVDGLVVLDMTLTEELEAEGWAADVIRGLQDARKASGFEVSDRIEVKLVVPEEKKEWALRHTDMIAGEVLATSFEVVTGEPAEHDIVAGVTATVQKV | 0.739 | | 98 | S | 0.775 | S | -1.87 | S |
| >5d24442b3943d45738a58adfdaa26d2dd560ac83 |  | |  |  |  |  |  |  |
| MKHAMGLFKVPFESIKAGRKTVEVRLNDAKRRQVAVGDTIEFTKLPEKEETLKVVVTKLRSYDTFEAMYKEIPFEAFDCEGWTMDEMLDGTYEIYTSEQENEWGALPIYVERMMAGDPLEHHHHHH | 0.748 | | 96 | S | 0.679 | S | -2.39 | S |
| >00d57aa5c0feac405fe16e9f495cd109a2f312dc |  | |  |  |  |  |  |  |
| MKFQYALAKEQLGSNSRSGVKKLISKHHWLPEYYFSDLSFSVVQQWDSRAIEKTTIISCMRPANQEIYPLRHCETLRSQPCSLFSSLYARSFQSSCTLHVAEPSPGFHMYGCHT | 0.204 | | 43 | In | 0.885 | In | 2.06 | In |
| >e95df9d4252996327f48ac8d334318e85ab039f6 |  | |  |  |  |  |  |  |
| MKKKERHEKILDILKVDGFIKVKDIIDEMNISDMTARRDLDTLADKGLLIRTHGGAQYLDYSSAKDEGHEKTHTEKKVLQTTEKKQIAQRAKNIIKDGETVFIGPGTTLEHLAVELKNRNIRVITNSLPVFLILHPSTTIDLILIGGECREITGAFVGAIAINNLETLTFSKAFVSANAVYNNSIATYSDLEGEVQRVALNNAVEKILLVDSTKFESYDFYNFYQLDQVDLIVTDKNVTTDIIEKYKKFSKIIIADKLEHHHHHH | 0.435 | | 89 | S | 0.736 | In | -0.6 | S |
| >7bb962823161fb278845b53cbd6d085caf583a7b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIYSGKFRIGVQDEAALQMLHDPEKLGPCLPGVSSFERNDDGYSCKVRLDVSSMGSSYLSKISGKLAFSYLDSENRTIHVQGKGRIAGSSISFDLFISVNGGELIWKIDVNYGILIKMMGEEKIRDVTQANIDRSVKCLSSVLCQ | 0.101 | | 64 | In | 0.574 | S | 1.63 | In |
| >215f6a9362b8473136554bd59e72582d10be96da |  | |  |  |  |  |  |  |
| MSKRGQSSSMSYKDKANLHFVEQEEPAFIKAMKAKLGYKEPAKLEDKYEDEAGPADFDDDETDLMRMKEEDRPQVVVLNEKTDLTKEELEKELEEKKKEEGDKLIAEGKITFKKPTKRAGDSAAADEEEKKKKKNAPLPKVQKGLLSFNDEDEEEY | 0.818 | | 100 | S | 0.568 | In | -2.02 | S |
| >de80ed0167b683a5df10a1d0c3d5fbcfc2aa8fd0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIVEIGLRSLFGFGNPLIYIGDEQIGYLLAPNQRTRRFGNRIEINEYSMRGSAINKTPAPSTLRVLLLGDSIANGGWWTDQTNTISAIMMRSLASSTHRNYQEVEVLNASANSWGPRNELAYLEKFSNFNAQAVVLLINTDDLFATPPTSLPVGRDRNYPDSKPPLALAEVWQRYIVKQKPIPEMKAVQNEAGDRVGINLEAIGKIQALTCQSNSQFLLVMTPLLREIAEPGPRDYEIKARQRLSDFTKAQQINYVDFLPIFNSTNNPQGLYHDHIHLNLQGNKVISEVLERSLLEILREI | 0.146 | | 18 | In | 0.729 | In | 1.35 | In |
| >cb3f180449fe69a07ed7e97d99adab91dcb9f568 |  | |  |  |  |  |  |  |
| MDVEKIPGSVCLVAPHANANPTWPADLAWVKQVLFRMGIKVVATLTHRTPIAEIENIASAETSLLLSHDAGQKAADYLSATFGIEQVCKGIPLEHHHHHH | 0.367 | | 96 | S | 0.613 | S | -0.55 | S |
| >97b7167f27eb6b50363fdbb4287c075daf9f97a8 |  | |  |  |  |  |  |  |
| MEATKRYLCLYLKESQEKFISNWKKRILVHEHDPYKNEIIKNGTHLLHVFTMYMREEINLQDIEDISKKIAQERMDAKVNIADFIYNTNEGKKEILNTLFLLNPTGQECKVVIEQINLFFDHLIYSTIYSYYKLKKEYIHSYYELKKKYN | 0.374 | | 90 | S | 0.664 | In | 0.06 | In |
| >63d6c6dc6a705fbd00ca2775d7e13fb98085e798 |  | |  |  |  |  |  |  |
| MTGGSKSEQVYEQLKQDILNGSLSPGQSLSAIDVGARFSASRTPVRQAFLRLEGEGLVSLIDRQGARVAPISIKSVRDLFELRILLEAAAARMVAEAVARDATARQQFEQVADALGAISEEDPSESRRDRFYELAETYDQAVIAHTRNAQLARSIAELRPHTERLRNIAHSRPDRLDVSLAEHLSMCRAILAGDGPAAAAACTEHLTQTQKTILDAVVDPQGAAVAIDLVTA | 0.315 | | 43 | In | 0.642 | S | -0.63 | S |
| >7a150904d5e3d772aad037c626fb0c880a68ce01 |  | |  |  |  |  |  |  |
| MSTALATLAGKLAERVGMDSVDPQELITTLRQTAFKGDASDAQFIALLIVANQYGLNPWTKEIYAFPDKQNGIVPVVGVDGWSRIINENQQFDGMDFEQDNESCTCRIYRKDRNHPICVTEWMDECRREPFKTREGREITGPWQSHPKRMLRHKAMIQCARLAFGFAGIYDKDEAERIVENTAYTAERQPERDITPVNDETMQEINTLLIALDKTWDDDLLPLCSQIFRRDIRASSELTQAEAVKALGFLKQKATEQKVAA | 0.405 | | 57 | In | 0.651 | In | -0.96 | S |
| >e2612ff28570855fe7ce4c0600b378f8da9a9f49 |  | |  |  |  |  |  |  |
| MGSSHHHHHHGGTGENLYFQGGSGRYHSSVLHQTEVTCNTCRGKGKIFNEKDKCANCKGMCVLKTRKIIEVYIPKGAPNKHKIVFNGEADEKPNVITGNLVVILNEKQHPVFRREGIDLFMNYKISLYESLTGFVAEVTHLDERKILVNCTNSGFIRHGDIREVLDEGMPTYKDPFKKGNLYITFEVEYPMDLIITNENKEVLKILKKQNEVEKKYDLENSELEVVSCSPVDKEYIKVRVTKQQQQQQQEAYDDEDHQPEMEGGRVACAQQ | 0.721 | | 98 | S | 0.71 | In | 0.27 | In |
| >1ac1adee4cc9a61633f945dbbda1952aaa5291f0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKNIVFCGLSSRAFSMFIKPLMERFSTHYEITGLLDADPKRFAVCKKKFPELAHVPEFSEDAFDEMMRVSKPDIVIVAGRDDTHVAYIVKSLQWNTDVITEKPMVTTVQDANRVLEAEAKSEGKVTVAFNYRYSPFHRKIKEMILDGKIGRVTSVDLNWYIDTYHGASYFKRWNRSRQFSGGLSVHKSTHHFDLVNWWLGQNPEEVFAYGALNYYGPDSEWNPLPEEDGRFCGTCRVKEKCHYYSRWHPRSSKASIKDDHLEAGDQSSLYTAYRPDACIFDEEIDIEDTYVAAVKYDGGALLSYSIIFSAPYEGYRLTINGTKGRIESNEFHEPSRIPFAFPEQTIEYYPLFESKQTIQVVKNEGGHGGGDPLLLEDLFLGKDPLRRYDILAGAEAGAYSIAVGEGMWRSVAEKKPIGMKELFQMQNV | 0.4133 | | 54 | In | 0.617 | In | 0.17 | In |
| >b408736ca995a09640f88c11e912dd1a00c52182 |  | |  |  |  |  |  |  |
| MSAHQVQQCLQRAGGKYADSAKKDIIGALSQFKDLSPGTDTFMFPDGKRRTAFRLKGTIPVYYKGACYNIPVTVYLWDTHPYYAPICYVNPTSTMVIKESEHVNKEGKVFLPYLNEWRFPGYDLSGLLQVMAMVFQEKCPVFARSAANSATNASATNPSAGSSASSTPTPYPSSQPTMPTPYPTGSGAAPYPPSSTPYPSAGAMGYNPYMNVPQSTPYPMGASGASPYPSASSNPAPPPPRPPPVTAQTSVSSSSGGTIQADTIRASVMSAVEEKIRAKLRERMGTNSAEMASIRTTSDELREGQQKLKRMLEELETQRSSLQTACEIYTAKKAELAKALSDAGGTDAPPIDEAIDAAFPLHRQIVLNYAKDLTCDDVIYSLGQSLKKRQITLAEYLRHVRDVSREQFIYRATMQKCRRTAGLPI | 0.344 | | 81 | In | 0.975 | In | 2.42 | In |
| >04fe4eb05dabf5fe5c4e49177d499d9a46684e64 |  | |  |  |  |  |  |  |
| MNTPIGVATGGGFCYAARMLNTLRSLIERQILKARAEGKLSGLEGEGKPLPDRSQEALSDPAVAAGFRIMAQAGVIPEEFSVKKQLDDARAAFAQLSDPAERKAAMARIADLEMRYNMARDARRAFLKAAALEHHHHHH | 0.576 | | 50 | S | 0.568 | S | 0.82 | In |
| >70355f4179b554efd3a8e4aea84b960ead77337f |  | |  |  |  |  |  |  |
| MPSSHRLSATILIFLSLTYISSSSNLVEDITDKQDSSEDDDHLQTFPTPPPIGTTTASADSLFNRMNKILRKEEKQKSQNFQIFNEKDLVTNSNANPYFSTTRKPKNRSDSSQKARDPDPQNQVIAGIPDLSDPCFRRYENSIIVNAQPYERRSSTGLIHCKSHCLNSQIGVYSCRSFVYDNVNRVCDLFAHVGDQAPARLLKFQTQDEDSPPSPPPSAPIVALATNTDKRDEHEEMTETIEDITVASPSSDSCPRGKQSTFLRTEGFELFSHDDQELVVGDVAECAKACIENKKSPYRSCPSTFFSRHPQMILVGFAESVSDSPSFEHCFDTCLNKTDAIGADKMVTDHEDVEEDGSKWESWSECQDGKQTRRKICANFNQIEDCAEEVRDCVDEIDSTDMRMSIKRAGELENNDHEQIEDNNTDASEDPVPTKEEIAEVKQKIRRTGFKCPLNECCRVFLSCSYGLRHNSHTKQLEWCRRPCDPSLSSFKRSRLLR | 0.477 | | 93 | In | 0.988 | In | 0.03 | In |
| >0d19f9f23c858ac617ed7c951c4574520adea0c7 |  | |  |  |  |  |  |  |
| MIVVALGNCPISGDVFNQEGGSVYAPVSDFIPVDAEVPGCPPRPSEILEAILAVAPGAIAERGKKR | 0.479 | | 100 | S | 0.623 | S | 0.97 | In |
| >b8e0b82c8fe1a510b724fba7f44828aa221039ad |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRHAETMANTSTRMLRLLSLLQTQRYWSGRELAEQLGVSERTLRRDVDRLRELGYPVEATRGVAGGYQLRSGTALPPLLLDDEEAVAIAVSLCTAAQSTVTGVEETAVRALAKVVQVMPPRLSKRVEALRPFTLPALRSNAPAVNAVILTVLAQTCRDTEILRFTHLARDGTRSLKLVEPHHLVSLWHRWYLIAWDVGRGDWRTFRVDRITDPEATGARFIPREIPGGDPAEFVRKHSRELPPQYRVVVEVAAAADTVRRAVGSWGTVEELDGDRCRLTLHTDFFDWPAMLLASLDADFTVVDPPEFRDYLQACAGRFLRAAESAGPLPSES | 0.278 | | 51 | In | 0.951 | In | 0.05 | In |
| >3c6effa13a38331c62f6d9f9b2b3783b1b56020c |  | |  |  |  |  |  |  |
| MDHKMLEKWMAEGQVTLPQVLVKNYAAIGLNENELVLLLQIQSFAAEAEFFPSMEMLTDRTTLRLEDTIKTMDSLLKKSVVAIEQSKDNSLMISEQYNLEPLWGKLVAFYENIEADNRQDLEVEQQTNLYSLFEAEFGRPLSPMEAEMLSAWVDQDRTSPDLIKEALKEAVISQKLNFRYIDRILLNWSKQGVKTIDDAKRVAEEFHQNGRTSQTINQSEVKKSAGSIPLYDWLEKRKG | 0.49 | | 75 | S | 0.74 | S | -1.12 | S |
| >447f25c430884010637e18614528be39ce6dc73e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAYRRRKKKIKKCRLCEMKLDYVDYKDTRLLSEFLTDKGKIIPKRLTGNCSKHQRMVKVAIKRARQMGLLPYLKI | 0.087 | | 96 | In | 0.703 | In | -4.83 | S |
| >c3a088409eb4cc8f2cadd4d81b2368bfc99c7f34 |  | |  |  |  |  |  |  |
| MIEICFEEKNDAMHVYRQLLKRAELLYKETSVYLQDQKVVIHIPVCESNYIEKILLPVMVYFIVNVKQNEWIYTILKEKFFYEEEEECHQILHMAQEILKGRRKGIARELTRHTFESYIKSSLNNWLCDPLSFSFSSYVRFRLRTYREMVAKLAEVAIDEYKLEQEYQMFIETLRQQVRSRKSRLSCVHLIFDESFIFYDDKGRRLKQEKLVQYIDEDLLKQKDVYIDTKVIAPLLSISPKKIYLYTKEQDHNMIITLRNVFQERVQLHGLHEFERNVKNLKNKGNALDFLSFLEHHHHHH | 0.324 | | 92 | In | 0.953 | In | -0.55 | S |
| >60c2199a1e1fcd75b0c6abb573d85707022b3386 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAEFDPGRFKDRITILQPGRAAAGAYGTHAVAWTEMVTVWGEVRDMLPSRAERIAEGLEISRRPCRVRIRHRGDVRTDMRLRFLGRTLRIVAIAEVGRREVLEIAAEELSTEGQDS | 0.117 | | 97 | In | 0.576 | S | 0.28 | In |
| >93e49a9c204f089c4b94a2c0d1b2f4a4e218bb78 |  | |  |  |  |  |  |  |
| SLTTTEVVMENVTAFWEEGFGELLEKAKQNNNNRKTSNGDDSLSFSNLSLLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMMIMGELEPSEGKIKHSGRISFCSQFSWIMPGTIKENIIFGVSYDEYRYRSVIKACQLEEDISKFAEKDNIVLGEGGITLSEGQQAKISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSSYFYGTFSELQNLQPDFSSKLMGCDSFDQFSAERRNSILTETLRRFSLEGDAPVSWTETKKQSFKQTGEFGEKRKNSILNPINSIRKFSIVQKTPLQMNGIEEDSDEPLERRLSLVPDSEQGEAILPRISVISTGPTLQARRRQSVLNLMTHSVNQGQNIHRKTTASTRKVSLAPQANLTELDIYSRRLSQETGLEISEEINEEDLKECFFDDMESIPPTEGKPTKSTKPYKNGQLSKVMIIENSHVKKDDIWPSGGQMTVKDLTAKYTEGGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQIDGVSWDSITLEQWRKAFGVIPQKVFIFSGTFRKNLDPYEQWSDQEIWKVADEVGLRSVIEQFPGKLDFVLVDGGCVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPVTYQIIRRTLKQAFADCTVILCEARIEAMLECDQFLVIEENKVRQYDSIQKLLNERSDFRQAISPSDR | 0.541 | | 60 | S | 0.655 | S | 0.64 | In |
| >b737d9336555f312be6702b0831a74cbb8e1cb03 |  | |  |  |  |  |  |  |
| MRGQKPKVSNVIPMKGDLAAPVPEAPGWMSAEGREVWDRLAPVLVAKKRLEPAFEDPFAVYCEAVADVIRFTGDIAAFGSWYEVETRNGRQQKKRAVWGQRQDAIAVMNQLAARFGLTPVDEARVRVTGQGDLFDEILKTLDGAD | 0.59 | | 62 | S | 0.631 | S | 0.07 | In |
| >ac100b2c370f725ddf78e4eebb39ed66472a1670 |  | |  |  |  |  |  |  |
| MLYFNQKYFSVKHTDNGTVELPKGKIVGCSWQVIRKLGEGGCGSVYLVKNLEDETEAAMKAESNGAAGGCVLKLEVAILKKLSGKPHVCQFLFAARLTDFTYVIMTLLGESLNKIVKRIARQITVSSQVRIAANVLFCLKQIHDIGFIHRDLKPANMALGYKTNNDECRFFHVLDFGLARQFVVSQSDQPSKLMMRRPRERSLFRGTTRYCSIRMHDRAEQGRVDDLWSILYLLAELRGPLPWSSQNDKRVVGEMKRLHSDEVVLQNSPMEFLEIAKYLRSLTYFHRPDYHKIFMLLISIMSKGKFSWNDPFDWEMPISTPPSKSITKSPNQLSKETIKKASREKTLSKEKTSKEDIKTAQKTSIEKDVKEKLSKEMASKEKISLSAEKINMSAEKIEEDNKKEEYMRMLPFDPDFFASDPIGF | 0.306 | | 77 | In | 0.984 | In | 1.41 | In |
| >1b1197abac14468ac71654ed90dd7258bf188432 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMANIIAVVWDFDKTLVDGYMQDPIFEEYKIDSKEFWNEVNSLPQKYKKEQDVLVNPDTIYLNQFIKYAKNGTFKGLNNEKLYKFGSELKFYDGIPEIFEKTKKLIEENKVYKEYDIKVEHYIVSTGFTQIIKGSSIMPFVEHVWGCELIEGKDNDGDVCISEVGYTIDNTSKTRALFEINKGVHSEDGREGVQVNTKIPEDYRRVHFTNMLYVADGPSDIPAFSLVNKNGGATFAIYPKGNMKAMKQVEQMRADGRINMYAEADYTDGTTAYMWICNKITEFAEKIRKEERDKIARYAVIDAPKHLV | 0.256 | | 87 | In | 0.654 | In | -0.34 | S |
| >e513953b0d3f391b769b4dfe62ae510ed69aa1d6 |  | |  |  |  |  |  |  |
| MAAASGVRKTSPTLKRVDTRELRENAVVAAEFLKTLSNVSRLIMLCQLAEGEKSVSELTELLDERQPTVSQQLARLRSEKLVQARREGQQVFYSLASEEVRSLILALHATFCRKDRDKDKPAAASRAKAAPTPRRQRQSVDA | 0.295 | | 64 | In | 0.722 | In | 0.01 | In |
| >eb8c6f7617e9e26042c11e158a2cb1e6a0a945a3 |  | |  |  |  |  |  |  |
| MQFDTKIALVIRTDLEAWQKLNVAAFLTSGIAAAFPECIGEPYQDGSGTPYHPLIGQPILVYGADGPGLSRALERALARNVKPAIYTEAMFKTTHDAANREAVKAVARADLPLVGLAVRADRKVVDKILDGLKFHA | 0.375 | | 56 | S | 0.677 | S | 0.34 | In |
| >69b911ba4583df6900fd21a32aa48a483122cd0f |  | |  |  |  |  |  |  |
| MMDYQSLLRSKCKEIMKHPIVKHFLSNPQHYRLFKNVMESPNEKDARSLDELFKQFYKEIRIVKYMNSMIRIFSIDFDKRVRKNQKRYPLTVDHPEAGDRLSSETGSDAFEEFLDRQDDLSQHVQDYQLYQAIQKLTDKQKSVLTKVYLHGATMQEIADSLGESRQNISNIHKKGLENIRKQLAAQKKREK | 0.176 | | 84 | In | 0.71 | In | 0.6 | In |
| >319fc014d31cd5fa280df83f086b54536e48ea53 |  | |  |  |  |  |  |  |
| MAHHHHHHMPLCKTFSQSEREKLRKDRDVLPPLSDGPFGPFPKNWNPRGRDGAKATVSTSVSILMAKNKAAAGQATAAAAPEAAQADILIGHTGTGGMTVSTFKGTGGADTSLSNGRFGDPAGPGKAGAYSKQRMPPTDFRHHYERSDLPLSIQHGAKRSLHWKVDVSKLDYHHYLPIFFDGLRELEEPFSFVAYQGSMDLLEGGGAKILPTVPQLIVPLKTALNSRHPDVLRKVFHVIQKLVVSGDHIGEALVPYYRQLLPVFNMFKNRTKSMGDRMDYGQRNSHDLSSLINDTLYLLERYGGPDAYINIKYMVPTYESCV | 0.448 | | 60 | In | 0.975 | In | 2.12 | In |
| >688bb11ef95ac6aa5f721c2cf504ad79d46db715 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSTAVQLKYYRSNFLKGMSFLFKTTQKVYPFNDLFEWRDSMQPIQLTAYQSDWQKQATEYQTLLRQQLQANLLKSSHVGSTAMPQLLARPTIDLALLVKDQAAAVATLHARPVAGTTHTYATQLAANDIHVIITTDKQHYQQLLTFRDYLNAHRTDGRKYTAIREKGVRNGQADLAAYLQTKAAFMASINDKAQDWLATKDQHEHHDRTVRAELVNMCLITNPATGDVLVENKIDAQWSGLTFPGGHVDRGESQVTAMKREVLEETGLHVDQLKLVGTVTWVENADGDVSLGTLYTTSHYHGDLLAGSYEGAISWQPLSQLTPDKLAPGVDQILKVFTDAHASEAFWGFDDDQLRVY | 0.24 | | 57 | In | 0.594 | In | -0.65 | S |
| >dd97cfc89c068d083a0276944dfd580c08f1a567 |  | |  |  |  |  |  |  |
| MFDLSGKTCGKLGVSLNTWRKSEGNFCGSEAGYCISNNLKKYYDIHNSASIKDGISLSKYKIKNIYNSEPQTKIYESYKLPDYLKDKIKNNNHAEMDENDLDNKIFYKPNVAAHSQFIDYKYNGNHSVEIKFETDAIEVYEIRPVSIATITHVTIPNDCASNNSNSNECVLIIHVWNNSKFVGSNFSCSIACTNKETDQLASHINPIAPVRAFIGPNKNYAFYFIIKFLINKEITTLCKAIVKDSNGKECSIEEFELQSKESVHIVESEVDETTDQVVVEHHTQSPDIKNPDEYVCKCTINLLCYV | 0.444 | | 96 | In | 0.862 | In | 0.66 | In |
| >d1b946d6e8d6fb09e2c9e8526f4400c9f5dc2347 |  | |  |  |  |  |  |  |
| MMIGPQPPGPSSGMSMPSSSSTNQFVPAVPPPPPLSREEIKQLLKNQLEYYFSRENLSSDRYLKCQMDSDNYVPINVLAGFPKIMRLTTDVDLIVEALKESTNVELDEKFEKVRAITKRKVMLIREIPETHREEVVKLIADGPPYTDLQYGVNDGWYVTYENELDAQVAYVAVQHRKNEITQKQVCARIKTCGPSTFAPPPEETPHSENGQMTTLGNGEQGTVHLRELGQTLSDYGFVPVATYRPGDPISSHFEYITPTFRFSGNSLSYNPPMPPVPPLPPQHHQQHQQQQQQQQPPLLQNTPQPYYYGSSVSTTPRNYDEMSTASSNSTHTTTSNYNNRNGSRNGGNQYYESRSSFSNSNEWRSRGGGNGGRFQNNYSENNGRQSNGSNGRWRGNNRNGATTNGYGYQQHNNRQNHYQNGQQRENGENGHHNHYQNGQSSNSWWSGNDGQTRQRKQQHNGYNNRPTVSSSSSSSTSSKYFSPDAVETPTNSGSSTPPQTSVRNPKYHVPTPTDLPPPPVWPAPNFDRRRKSSETSFTTNTTTNTLTPSTPVTPPVLRPAFSESKAPQEPSKPVETKENNKPALTDDFPLPEPLPQKPKIETNHHSAVEKDAEKIKVRSPPVVVASSPAPAAPSPFSFEETAFPSLPKKVEPVKPPQKPTFR | 0.574 | | 100 | In | 0.957 | In | 3.34 | In |
| >f41f48a678f8f3e704088b3941e7ddd3e14d6597 |  | |  |  |  |  |  |  |
| MTLKTDLLPKINNEDYQRLILKHSAEFSGGEIRLLNEILEKFNFDVVQAQALAQAVMQQIRFDPNAYHIDSDDEDTTGICPHCINPPMPPLRDYLVWRETRG | 0.234 | | 67 | S | 0.62 | S | -1.31 | S |
| >31831b59a057d6adf150c3ab190103a6dd073dce |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDRLKSAYLDSNVFIYATLYSGKTAEKSKEYLLRASDGEFNAFTSTLTWDEVVYVVRKVAGIEEGIKAGEILLKMPFIEFLDVDFAVCEEAQKLAEKYNLLPRDAIHAVLALKYCDGVIISNDADFDVVDGLKRMFD | 0.109 | | 98 | In | 0.634 | S | -1.91 | S |
| >5755aef30c8dfd1e649bc5756af873d3cc3cb6b4 |  | |  |  |  |  |  |  |
| MSLSLLSKLDVSPLQFQDPSKDGSKIINLNLDGSGDPLRLSELGESDYSNSIKVRDNEYVTYHLSNDYSVLTIYSMNDALQNKTINIKLPVQSTNKQHTSIVFVKDEAFNVEFILRNSIYLKISIPIDFIINNSSELNEDWFYVLQPYDFSVRKPHMLHRVSDNFSVVFLEDGGLVGLTSHGETDLEPILFNDNSYLQSITRLFSKSKHSKNSKVVSCSNYQSNFLIVLTEDCILKIWDLKKLILINEYNLFDVNNSDFIAGGLFDSCGNYLHLFNNLLTIYLPFTNGLFQVGTLDVDSSDKLTFQSKIVIPSNLPASSLWSLTDMRMINPLDLNLPETFLNIIVLWKSGTMSKLQILNILNESVDSYEWIDASNKDLEETRIESDIESSDFSKTLFKLTSRYPKAIVDRAIKVLEENGISIPLQEALDEEYLANLETLLRDIKGGCDEASSLTLYNDEIIVINCLQKYNYSIYKINCSLEKTYFDINDDSLNDDLSRYLRTVWGFSSTVPDHVLKNISHQFVGIITKSIPSTLTPNEKLTNIYKTSLESQLEITNINTLFRELSSFDVISILNTLIDNNLQVFNNSANTYVDAIKSESFSNIITMKCLKNLITVQNNFVLRILLTFTLLDFDYSVFEKQLNALLDLHYKQVLFISLYDLDKSKLSNELFKQTTKFGQGIKLYSYSDLTTFLQYATFKFYEIDINSNTYFQRYFNDMVVIDKGTNIIEKTELLEYIGWPYFIRDNKSNEFLMAILLFSCGKFGQSYEFFKLHDYVESIADSLPPFFIELTKENNENSWKPLILSFQSNYNHTLYYYELSLLFSKEGQHEYALSSIKKSLEYQMKDVEIEVPRDFKVKQLTQYLNMLIHFNMFREALDVLRFSHVVLSNDIRRDYFKLLLNKNDIDGNFFATLLNLCYTHEGQDMYLNPIDFDIIDGILVQKLRAFSWPTYKRLYSYRMLNKNERKAAEVVYDYSVQVHDNTSELKKCYLIIINILSSFEKENDQWILYNGEIITLHSLENRIEKLEGHHHHHH | 0.506 | | 26 | In | 0.875 | In | -0.07 | S |
| >580a77fc0918421310a480d5b77729d65e2ecdd4 |  | |  |  |  |  |  |  |
| MIHTLVRGQKIDVTNNHLEIRGLLVDLTWNAPMNMDVDASAFLVGFNGKITKEEDFVFYGQPYSSCRSVQLNQNETNGSKQRFSIDFTHIKDEVQKIVFSITIHNAEEKKQALRDVSHIQLKISNAQSGLEIIHFPITYPFTDESAIIVGELYRHGGGWKFNPIGAGYFGGLAALCTSFGIEIADDEKQTAPPIEKKIVPTPPPVQKAINAVKVELKKKQSINIQKSKMVTATLEWETNKDLDLYCFYVTTNGEIGKVYYKNLGSSKISPYIVLDGDSQEPGKETIRIYRPEALKYVLFAAYSAVGNGIGSFYSMKAKAVVDNHMGSVVTAPLLEINDHAYWVCIAHIDFTNLNEMKISHVESYSKNHSEASPLLYENGKFRMDVGPIEFKNEEDYQKYFK | 0.271 | | 77 | In | 0.826 | In | 0.69 | In |
| >34305b339e480baa62b86a00a411b593ce0fcce8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKDTVVKGSLKLKKVSTEAPKKTKKSKPAMDLKQVDMTIRRDSRNTSGGGPHKTEAELRFEARRQANMAERMLKQAALSHREKVEKLNKQLGEMTEFNDIPKVSWTK | 0.211 | | 96 | In | 0.543 | S | -0.95 | S |
| >e9de5fc2537873e179962b628f4d44b46f3b5a5b |  | |  |  |  |  |  |  |
| MLQIFVKHNIRIRGASTPLKAAITKALTFDNPAYLKAKKQRRPTWGVQAKLELFLHDRGDIVTPRGFLSKLEEVLKNLGYDPSKVITSQISYGRDVSFGEWDDGFVLKEDQIPMVQALMQENGIGVAPAGSGKTVMGMRYIYEKGKAALWLTHTKDLMYQSAKRAKDTMPGIGRIGFFGDGVHDWGDGKLIVATVQTLQRNPQIIDALNDFIGTVVVDEAHHFPAIQFIETAGKLTAENVIGLTATPSRKDGLEIYMYNGVGPKVYEISRDGMYEAGRLVKPTVKFVYTEFNYETASNRNEIDSVDAGGEDLDYTDLIRHLISDKKRAKLVAKSIVEHYPLGPAIVITESVRYCFVLQKLVQKLLKERYGDTYYGKPIHTACGTRRNQSLHLEKSEK | 0.404 | | 46 | In | 0.958 | In | 1.03 | In |
| >743f6bae25ab3e747a915669e6b6c30843673f6e |  | |  |  |  |  |  |  |
| MITAIVRYRLPADIDRAACRDHFESIAPGFQSVKGLLSKHFIWSERGVAGGVYQWASQADAEAFYSGPWRDGIVRRYGMEPEIEFFTVFAKTDNEAGTVTVVEAAQPA | 0.322 | | 20 | S | 0.6 | S | -0.42 | S |
| >30ce504bbf80061ccc417055a99a6a7bfe39a41f |  | |  |  |  |  |  |  |
| SVFFSNDSTMGDDLLISGNPDLKVISTLATDFYRAQNADLPAVDLTINMEAEFNDIPLNWEYYKRSTSGASLFVSKYQQAYRTLMAEYHNSDQLPLFVFYSDSFPHIDTRTSDFAKKAIKEQGYIIRNFAYYKWNSEVSCTSIWQNRFINSMLKQISLNDSDPLNSKEVEYIKNKLRTFSEPINSALEEKDDFEIKDFFPVVDDKTLSLYLRLKNERDVIFDNLPAGYKRLYSIAFDLAYRLYILRKTNEEDPKGIAIIDEIDLHLHPSLEQEVLARLKKTFPSIQFIVSTHSPMVLSNLKVKDTGNMIYRMQADEDTPNALPNLYGVDYSAAVYDFMGTPYADNEVKEEIEAILRLSRRGKPELVEKRKEELKSMVSEEQYINIISKINSQLAEDKY | 0.418 | | 51 | In | 0.69 | In | -0.34 | S |
| >594333dacafd86c74053bc2abf41958a313dbcb6 |  | |  |  |  |  |  |  |
| MKGAGVDPVSTQSTEAVDMPSEPCLQDAHLGSHFRALDSFLFAHQALWRPKPFTHLHLPWEDTYPQLSHWLRHRTLAQAEAAHNHPQHLDAPFPFTQLAAEAVALSHVAELPAFPLAPVNARMNVDVPGRKWQQIEAFAAHLDMRDSTTHWLDWCAGKGHLGRRLTARGQSLTCLEHDPALIEAGLALSARQSIEARHVQQDVMADDAWRCLQAQHTPVALHACGDLHIQLMELASQTGCQHMAVAPCCYNRTRHDHYQPLSSEGKASGLKLSRDELGLPLSETVTAGARVRRQRDTSMARRLGFDLLQRNLRGIDDYLPTPSLPTSWLDAPYADYCCHLAKLKSLPAPGKQDWAALEAAGWERLAHVRNLELVRNLFRRALEVWLVLDRAMYVQEQGYRVSVGTFCESQLTPRNLLILARKT | 0.471 | | 32 | In | 0.747 | In | 0.11 | In |
| >c8c79a940dc252628ac990e740f08ffe3e9217ce |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQNTHLKIAEAARMSGVSQSTLRLWEQQGLIEPARTPSGQRLYDSAVLERIARIAWLRSERGLNPAAIKEELGHPETGQKGLDVAEPVTDTAAIGTKVRQMRRLSHQTLDAVARATGASVSQLSTFERTSQGISITVLHDLAKHFGTTVADLNGHPTQQQSASVVRDGEWMTWPTTSMGVSIHSLAAGARQMECHRFDLAPGASSEGAYRHEGEEFIFVLAGALQIVLDGDQFYDLRTGDSFYFESSRPHSWRNPADVQATLIWINTPPTF | 0.17 | | 25 | In | 0.714 | In | 0.32 | In |
| >4826f677d83a0592b55355e9bc0244a78262a8fc |  | |  |  |  |  |  |  |
| MIVDFETHFITEACIDYLTQRQEVPKLVPDLNGAYTMCFTPDVSLFHTSALMEELLSLNEQRLAIMDQAGVTIQVLSLTTINGIDSCPGDENKSTALAREVNDQLYSAIQRHPERFKGFASISPYDVKEGVKELERAISQLGFVGWLTHSNFGQDNYLDDKTYWPLLEAAEGLNIPIYLHPNVPIMREFGKYGFALGGSALGFEFDTALCLMRMILGGVFDAFPKLKIMLGHLGETMPFLMERLDHLYRIPDLKAYRPSIQRIPSEVLRQNVYITTSGRFFVPALRYVLEVMGEDRVLFASDYPMESLLDATRFIQDSDLSNQTKQKIFSINAKNLNLILEHHHHHH | 0.426 | | 25 | In | 0.538 | S | -0.59 | S |
| >dcb7ebcb28bc736ac1709314594b4aeed0583f38 |  | |  |  |  |  |  |  |
| MSDSFANVPGGSQKLNSGYNIPFVGFGTYKVTGENVPPAIDAALTAGYRMFDTAKYYLNEKELGEALKILLPKHGLSRSDVFLTSKFFPESKNCREACRGFVEESLQSLQTDYIDMYLVHYPKPNDSDNDDVNNAEYRKIAYEVLEEAKAAGKVRSIGVSNYEIVHLEELKTYAKVPPCANQLEYHPHFARIPLQKYCKEKNIFFQAFSSLARHEPKLIEDPVVVELAKKHNTSVPLVLLAWALRQNVGIVPKSVTPSRIVENFKVIDIALTPEDIQSLTALDRGQHYIRCTGWLVK | 0.596 | | 84 | S | 0.975 | In | 0.84 | In |
| >12eedf1b1d43c467661c2da7e456eca7baea7ffb |  | |  |  |  |  |  |  |
| MALTYKPGNGWGFMDINQYPSKVFKTEETGLLAKMIIKGLNSVPPSTYIALDASIYTTTRNPQMYSLSTQLGQFKSSHVITPEIAFREQNGMGLAWIAARIGDIALISELAKHQAELNKADNDGFTTAHIAALTGQPLVLDELIKLGADLSPSLISAIHWKKNLLETRCCFSNEFISAVS | 0.241 | | 35 | In | 0.742 | S | 1.01 | In |
| >e00f2fe0e5206ec902650a0a91dcdd5d2e0bc453 |  | |  |  |  |  |  |  |
| MLQTSQYYGDQRYFTSNSYSFNDVIKPDNSSNLLMIKPTVELSERYSSHPCSSSLNDNQQNTKSDGITAGKSTTQNTPNETVNFNFFNSGYRFCDVEPIKEEKISEHDENLKSNIETERQNSSQDLFSKFIFFQIDSTLIVFENFNELLSPSNFKLMFDINKRTYNHRPGPCRKVDGPVHGSEDIAIVEELNLAFITSGLVYLIEDPTQVTWKGQIFAYDLSKKTYKAESIPIVNLEDGDGFHPHGISHWIKKDGSVRLFVVVHSKQFRHSIAILDFDKTKWQLNHVKTVRDDKFVRPNDVVATGENSFLVSNDGGAQTIVGNAIEMFTGFFKGGLVYFDGMNSHYLLENTVANGIILSRDRKTLFVSHINQETIGVFAWDQKKITIKKISEIETLTGCDNFFIDNEDNLWSGCHPVLKDAVGHLGDATNPNLYSQSQVLRFKFSSDLKSTEMLEVFSDDGRFTAASAIAATFDNGKQLLIGTVFRDLTHCDIDVPLDF | 0.478 | | 45 | In | 0.977 | In | 0.29 | In |
| >5726bbbc6cdcab58ffcd86813a037a629ded5ff8 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMSEVEWRGRTVPVKIDKVRIFLLGLADNEAAIVQAESEETKERLFESMLSECRDAIQVVREELKPDQKQRDYILEGEPGKVSNLQYLHSYLTYIKLSTAIKRNENMAKGLQRALLQQQPEDDSKRSPRPQDLIRLYDIILQNLVELLQLPGLEEDKAFQKEIGLKTLVFKAYRCFFIAQSYVLVKKWSEALVLYDRVLKYANEVNSDAGAFKNSLKDLPDVQELITQVRSEKCSLQAAAILDANDAHQTETSSSQVKDNKPLVERFETFCLDPSLVTKQANLVHFPPGFQPIPCKPLFFDLALNHVAFPPLEDKLEQKTKSGLTGYIKGIFGFRS | 0.676 | | 91 | S | 0.671 | S | 0.05 | In |
| >740e00a100e584c3b6de2c060203ab6e0656b0ae |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAIIKPFIGVRPPQDLVEQVASRPYDVLNSEEARTEAAGNEKSLYHIIKPEIDFPVGTDEHDERVYEKAAENFRLFQDKGWLVQDAKENYYIYAQTMNGKTQYGLVVGAYVPDYMNGIIKKHELTRRDKEEDRMKHVRVNNANIEPVFFAYPDNAKLDTIIRKYTAEKPVYDFIAPGDGFGHTFWIVDQDEDIAAITAEFAKMPALYIADGHHRSAAAALVGAEKAKQNANHRGDEEYNYFMAVCFPANQLTIIDYNRVVKDLNGLTPEQFLAALDKNFVVEEKGTDIYKPSGLHNFSLYLGDKWYSLTAKAGTYNDNDPIGVLDVTISSNLILDEILGIKDLRSDKRIDFVGGIRGLGELKKRVDSGEMKVALALYPVSMKQLMDIADTGNIMPPKTTWFEPKLRSGLVIHKLD | 0.327 | | 75 | S | 0.543 | S | -0.43 | S |
| >fcd0648ab1b2c4d55751a91b4718910d4d104a47 |  | |  |  |  |  |  |  |
| MANQDQNYLGPRTHPPNLQKSTSFSGAKLHYQYQYTGKEQKTSSSKDESRVHHSESRSPRLSKHLAEDDGSGSTLDQRLSRQLTVDYGGGSTVDQRSQLGTSGTKYLTTVQSSNLDSAASPLSFSGHTAPSKIAVVRETLPVSSQASIFPTSYRSSQYPFLNPSTKVTTTPPIQQSHLGTSRLTTVQSSNLDRSPSPSRSRYMNSRDRRKTTTIIPSSIPQSSEYKSAFQREAPAVYFNQHTESQSTYKPLPMSSQTQNRNLTIGYTPNQFQEIERAQREFKNQKKQEEEIRAKLDRRRIEESQRLEAERFALEATMVDEDEDVAKFIRNPEERFKDSRDSKKLEWRSRRAPNQPEQVCGESCENAKLGKFGKFAKLSKYGKFARLGKFGKFATLGKFSKYYIRTMPNSCKEFSISENVKNISRFVDGERYHTNLEDRFNIPWRIRIEKTNDNFQLYLRCEKEECENRKWSIETEITLKLVSHNGKSLMKNWKYTFAKPTGRGFEFISWKELESDYVVDDSIVVEAHVKILNILDSPCTETMNQKTFMLNHTVQNVSNIKERGIYTTNVETHYNIPWRIEIQRREGFFGMYLQCEKKHFDSKDWSIEVELVLTLKSSNGQRLSFTASSTLNEPASYGYDKLIRWDDMERKYAVNDSIIIEARVKIIKMTGFEERPPVGRLSGIVIPVGDREYSMEEWMEMAFGC | 0.574 | | 56 | In | 0.978 | In | 2.02 | In |
| >ec2c46c5439b9dc7879c66f83243f27367aa828a |  | |  |  |  |  |  |  |
| EIAMHCQAVMRRFDMQPDDCELHFYSINFDAATERLLVPLLSGARVVLRAQGQWDAEEICTLIREQQVNILGFTPSYGSQLAQWLAIQGQTLPVRMCITGGEALTGEHLQRIRAVFQPELFFNAYGPTETVVMPLASLAPQQLEEGEASVPIGR | 0.537 | | 17 | In | 0.656 | S | -1.23 | S |
| >f4c9d6f734717373ba2b77d1391441f63749802c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVSCTSGQRENSRAGKGKSGRSKRSKRDKKNQNRDRRRLQLMPVTPASPSAPAKGGAGAAKSAASKEGSQRVKKSKKPSEREKAPKEDKNEGSSRAKKASKENQDADKKPEEEGKTPPPANRDDETKAPAPVEPSPKPEEEVKPVTPPPTTAPPAQPDNQENMGSVYLDNGKNSYDNQKASNPAGGNNSAYQ | 0.22 | | 100 | S | 0.703 | In | 2.76 | In |
| >203caec801a4e529a4374b760661d7f47bf01841 |  | |  |  |  |  |  |  |
| MFATGRHHVDVGQIRDNLEIKSYMITSNGARVHDLDGNLIFAHNLDRDIASDLFGVVNDNPDIITNVYRDDEWFMNRHRPEEMRFFKEAVFQYALYEPGLLEPEGVSKVFFTCDSHEQLLPLEQAINARWGDRVNVSFSTLTCLEVMAGGVSKAMRWKAGELATAEGLIAL | 0.421 | | 88 | In | 0.724 | S | -1.17 | S |
| >3115fb7f070c7f1e3330e8b43ecaf111ea69599a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRKSTTRRSHSEKSSSRGSMSSPPTRFYPSEDSESIYSTRKCSKRTTTTATTDEEKPNNSYYIDDIYDSTEEYQVTFPTVELKLPRQRKHCRRRSKRQDQAQGEHVTITKCVDRRQVYGEPDNKNTISEHSTYTYSTHPERCSQAGRTSRSNSYSDATDATYRTENSQNRLQTLGNCATSIGNFFRNNPRF | 0.134 | | 95 | In | 0.889 | In | 2.05 | In |
| >c484598c121b4fe0b4e83a085736c1d04019b95f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTDIASLAQLQQALSPLHARAYFDEALFVREQEILFRQSALYVGHEKSVPEPGDWRRLPQDDGSRILVRNGNEVALLSNVCRHRQAVMLGPIAGGEAMKGNLSVTGGNIVCPLHRWTYDGQGRILGAPHFPSTPCLNLSRFPLHNCHGLLFEGPRDPLKDLDVLFRRPEFDFSDYVLDHVEVHRCNYNWKTFIEVYLEDYHVGPFHPGLGRFVTCADLSWEFGAQYSLQKVGVHDSLEQPGTEVYRGWHDNLMRYRGGRTPDFGAIWVTYFPTHMIELYPHVLVLSTLYPKGPQETLNIAEFYYPEEIALFERDFVQAQRAAYMETAVEDDEIGERMDAGRLALLRRGVSDSGPYQSPMEDGMLHFHEWYLSNMGEQLGDSAAPHVASTQRPMPFRS | 0.209 | | 27 | In | 0.688 | In | -0.24 | S |
| >6bd02cb78eb343deb7163730005e294303fdd620 |  | |  |  |  |  |  |  |
| MHFKATLLSLSIAATLPSFSLSAAPLHIDTALPDAAQIQQSNSWLEISLGQFQSNIEQFKSHMNANTKICAIMKADAYGNGIRGLMPTIIAQGIPCVGVASNAEARAVRESGFKGELIRVRSASLSEMSSALDLNIEELIGTHQQALDLAELAKQSGKTLKVHIALNDGGMGRNGIDMTTEAGKKEAVSIATQPSLSVVGIMTHFPNYNADEVRAKLAQFKESSTWLMQQANLKREEITLHVANSYTALNVPEAQLDMVRPGGVLFGDLPTNPEYPSIVSFKTRVSSLHHLPKDSTVGYDSTFTTSRDSVLANLPVGYSDGYPRKMGNKAEVLINGQRAKVVGVTSMNTTVVDVTEIKGVLPGQEVVLFGQQQKQSIAVSEMENNAELIFPELYTLWGTSNPRFYVK | 0.418 | | 45 | S | 0.542 | In | 1.13 | In |
| >066b247a0f74a6fcfac37265875a833afbd31231 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMMARLRVINLGLPKSGTTTLGVALRASGLKVADWKVRKFQSANPEVARHFLGDLMYRGYFETGDPLHLLDEFDAMTEINVVGGELNRWPQTDWGLLEAIIERHPGAKFILSYRDPEAQANSMIRWTNLGRKRLRIFDVPGLPGKFGRAPADIVRWIDGHNRFCRRVFAGDPRFLEYDILDPEAPARIGAFLGLPIRWWGTVNENPETGAETVTETVSEPDAAPSEDQTS | 0.263 | | 30 | In | 0.719 | S | 0.62 | In |
| >2aeea5cc997ab9bd896615e688b53a484057c913 |  | |  |  |  |  |  |  |
| MVKIKNRYYVIRMLTNDGSPPTPRKSSIFQELMKLTSEMFGDFGYSILKMSLSVRVLDEDVIVLRVAEGGNKYFGAILPCVHKIDKQPMVLQTIFIGRSMRSCEKRLIKSRRDELHDALGKCTKTETRTQLLEAIHQICGQPARIFSDEQRKDQATTS | 0.17 | | 59 | In | 0.781 | In | 0.61 | In |
| >69988b21519350bec7adc4a6554cbe8a52891409 |  | |  |  |  |  |  |  |
| MSLKILAEVLALPRFSDLQLLSSHSNLTQPLESVEITETPDVADFIPKNVMILTTAMIYKDDQEKLKPFIDSLKQAECTALGIKVGRFLDEISPEIVAYASAVDLPLIKIPSTQPLGGLLHEIVGYLRDSKTEQMSVAFDIQKRFSTLLMQDVDATRFIAEFAKILNAPIILLSPWQQVIAHSNYFYGNQKSAEFFIEQLSKDHFQQLAQEKKIFRLQDERQENIQVAGFPIRVNDYFPYYLLVLSPEQIPYPISEFAIDQAILVLTFMLFKNQKIAESFEHLKTDFLDRLLDTHQEALSKHQNWLELWKNYRLINSDYYQLAIVYGVTKPENETHIRYQQAEGQLIFQWLKEQLPEILPDVALFKLKNQNKSILIFQSKKNDHLMILQNLAERLQQALPITIRFALGNAYENLEDLPNSYIEASSTLEASLHAQKPATVQLFHPKGLAGLFEKIGTEDVEYFCQQQLKELAYPTEPTLQELRKTLKVFLDFNCEITKTANALYLHRNTIKYRMNQCEKLLGTSIQEPETSLLLRVALELSEKEGHHHHHH | 0.524 | | 75 | In | 0.504 | In | -0.79 | S |
| >4a2902339287ee100cc014951cc88ad1e35e99f2 |  | |  |  |  |  |  |  |
| MEIKENSYVKSFKKLRIAKLFENREEFKKLRRKNTFWKEISEAMAVRERIKDHLIRDPNHVVIDLCSGKGFLSTLVALMHPKTKVIAVDIDEGADREHFTYLKNAQFVKADIMSEEVEKLIKEAGDKVILTGIHLCRDLSERFIELVNNNENVKFAVLMPCCEGNFPREKYQFLIDELGVYEAWCYYLKDKFDENLKVKMKRDKKVISPKNIVLTAERN | 0.627 | | 99 | In | 0.715 | S | 0.4 | In |
| >c9952daf4c1832fecbd7fd888fe8096902083713 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMQITIKVLKGKDCTIEVAPTSTILEVKHQIEAELQISATNQKLLLLGRPLNNEQTIASYPNIKEGTKLNLVVIKP | 0.648 | | 99 | S | 0.681 | S | 1.18 | In |
| >2fdf488944ae2575ad6e152703b80980bc2cba7c |  | |  |  |  |  |  |  |
| MRRCSMRKIAIVTDSNSGITQDEGRKLGISVLPMPFYINDVMYLEGITLSQEDFYERLKNDESISTSQPSPAEVCGLWDNLLEEYDEIVHIPMSSGLSASCDTATMLARDYDGRVQVVNNQRISVTQRQSVLDAIALRDAGKNAAEIKEKLEEEKMESSIYITLETLKYLKKGGRITPAAAAIGTVLNLKPVLQIQGEKLDAYAKVRGKKQAKRVMMKAMQEDWDTRFKKYVESGEMCLQIAYAGNKEEAEEFKKEVQAAFPGMDIHMDPLSLSVACHIGHGALAVACSKKVTV | 0.537 | | 84 | In | 0.904 | In | -0.01 | S |
| >65fec202e3a2c6344a1f1ce4e37b3dfea3e00b9b |  | |  |  |  |  |  |  |
| MSLKVNAISIGKIETLSYGNYKPMQSALNKIPFKGQMWLNRLGFVDDEQAYHNHGGIHKAICCFSKSNYQLFKDDLDQLPEFAMFGENLTVEHLDEADVYFGNQYQLGDTIIEVSDIREPCWKIQAKYAIPNLVQKMSQSGKTGFYFRVIKEGYVHQSDNLKLIKKAESNTRLSVKDLNHLFYNERNNLRLIYHALRNPYLSPDRKKKLQKMKTRAENRKFIKSDDKEGHHHHHH | 0.325 | | 80 | In | 0.531 | In | 1.52 | In |
| >58453d4d6e959f96749009aca20d6138a6f1e240 |  | |  |  |  |  |  |  |
| MGSEKMKYIIAKPVRYDIDRHVTVLEKVLSALPNNGHLTTLLEYAVDDETLRYKMVARFVPLDYLETIALLQGFVQNEKNGGHTITEDSEDEVEKITEALLLRAASCSADGKIDEAMDIAFAILKVIEPAMENVYDEGYTFQCIMEEAFDFITKMIDEQSSVKKQQHLRNRLLKQHEERTDAERYCDHMWDENCWLNGEDVRSSK | 0.477 | | 96 | In | 0.596 | S | -2.72 | S |
| >f18abed5bebcea4b56359191e6271f5cb46f55a8 |  | |  |  |  |  |  |  |
| GPGSMLFLARDGMRGHLVDVETQTVLRNYAIGEVATNALAYSPISQAVIAHQTRNCALFLSAATQQPLQRSFTPELVTSCAVTQCGTFMVAGTANGTVFLWNLQSGDLIKSCKGHLRAVHCAAISADDSLVATVSEDSVCKVWDLATLASLRMREVVPRCIFNAHSLAVTCCTFLHHSNVLLTGSSDRTCRLVDPHTGEQLRSVTVGDAVTAVTVSLDDASIVAGTQKGFLFFSELYEPSVGLAIESERDGGHREAILRPPSADGHHSPVIFLRCLPSAPSLVLTASESGAVLWFDIQNGRLVKECISPQKGRLLGCCVVPQAALLVKGICAPLQKHPVDPSRGNYRITQCALTACQGRRGVKRDRVREGDVRLGPGEKADANALEEVRAKVVELCDLRAQLQRRLRKLSAAKR | 0.768 | | 40 | In | 0.966 | In | 1.26 | In |
| >496502fa6a45058469f6d87d0879053849d4b1ba |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVFLSEIGKLETSLMECLFSRLKVKVPMTKNNSDFTLPPTNSGKSQIVFQPPWYYGVTYIGAHVKFTKESAEKVIPGFLSTDGEGWVYIAEFISTSEDNWDYMYQDPDLVQYMEGAIGLKVNFEGKNYLYFPFMWVDKDWALVRGWLDGYPKKIAKIAMTKLHPLLPKYNKPESGLRLGGYVVRGGGVMFRMQVELEGRTDSLPLKSFGPFLNIRRFPSRGEGEVDLYEIVSRVRDESKYGEIWKGKANVELGGYVNDEVSLLEVERTIGGYYYTLYFKVTTTQLISKKIEETISLK | 0.383 | | 39 | In | 0.676 | In | 1.1 | In |
| >cf2d664957877f732d2382e069751c832246af87 |  | |  |  |  |  |  |  |
| MSLNAQNTPEWQSQYAVGLNKLAPHTYVWPYASATDVKKGDYEQSPYYLNLNGKWKFHWVKNPDLRPKDFYKPSFYTGGWADINVPGNWERQGYGTAIYVNETYEFDDKMFNFKKNPPLVPYKENEVGSYRRTFTVPAGWKGRRVVLCCEGVISFYYVWVNGHFLGYNQGSKTAAEWDITDQLEEGENTIALEVYRWSSGSYLECQDMWRLSGIERDVYLYSTPKQYIADYKVNATLEKERYKDGIFGLDVTVGGPADGVASVSYTLNDPLGRPVLSGEMPVKSRGLSNFITFGEQRLKDVKRWSAEHPNLYTLVLELKNAGGQVTEVTGCEVGFRTSEIKDGRFCINGVPVLVKGTNRHEHSQLGRTVSKELMEQDIRLMKLYNINTVRNSHYPTDPYWYRLCDRYGLYMIDEANIESHGMGYGPASLAKDSTWLTAHMDRTHRMYERSKNHPAIVIWSLGNEAGNGINFERTYDWLKSVEKSRPVQYERAEQNYNTDIYCRMYRSVDEIKAYLAQKDIYRPFILCEYVHAMGNSVGGLKEYWDVFENNPMAQGGCVWDWVDQSFREIDSNGRWYWSYGGDYGPKGIPSFGNFCCNGLVSADRVPHPHLLEVKKIYQNIKCTLINKNNEGHHHHHH | 0.611 | | 15 | S | 0.509 | S | 1.19 | In |
| >3d225c664234a15e994aa6cb7a639d4c33fa6763 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKGRDWLLTGDGQHQACKSVRSWDLLRENYRLYRFLTEVEDVLNGSDNETNCLPETRMLVRRLIVNSYWVQSQHLEPSPKTGNSVLLLYDELGFPLTVQTVTFAPGTRSNIHNHGTWGIVAVLKGQEKNTFWRRTNSPEFQDKIEATGEVTLFPGDIISFTPDAIHSVEAVGDEPTVTFNIYGETDPNERFEFDLVSHKARNF | 0.143 | | 39 | In | 0.713 | S | -0.04 | S |
| >f1cfe77188f39c43a4f49cc959333987d948378e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKQRVETEKFYPAYPVFVLTYLNEIGEPQMSTGSSSYTLGDSIVIGVSAESNAGKHLHAGQKFAVNFPNTEQLGLIEQGGFSSGKRNDKIKVHQIELTKSDSGGVAYIDVCPIVLECTVIQTVSDMDYHTIFAKIDSRLFEKNLVDSEGHFIHEELDLVLFSGDANERKFRQLDAKIETIGGHS | 0.117 | | 91 | In | 0.686 | S | -0.33 | S |
| >bc6e0faa066ed82001ebc61db9b83483d4989e0d |  | |  |  |  |  |  |  |
| MHLSLDLNDFLKVDLTRLAEDDETHQKSTKKHTELLIELIDRKSTKASALARKVIRWPIGQTLPTQIAYNNGDEQLLIVGPTSEALLPMPKSKIDALTATAIAKSGPTTKTKTFSSFAVNPIDTFDTKSLLKSIQNCIENPEKEKRWKQLSSKLDEECSNGEAAGALSAVEQSQLLTAIRRYTDDVDSEPETLHVVLKAIATSRVLSFRNEDGFLRMCIEKLKSNTEIVEHVLADGARVVSEFILAELLKLAAGKPSESERRAQVSQVLARNFSKIPMTEACGAVLSVTESIEIMTILTEIYRESPDISISSKALTLITVLMDAHGSRIVYEDKLHHKFAAISNFIIEMQSLVGTFARLEAAIDECSDTQAANNVVIRMHPVAHPINW | 0.354 | | 82 | In | 0.983 | In | -0.22 | S |
| >b9552417aa5660420f3576b0b4673c24a37fb6a7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKLGHRLAHINMMIPNSYTHIWDCCCDHGLLGAALLDRHAAMIHFVDIVPALMQQLTAKLECFYPPQNPPKWQVHCSDVSAIPLDQDEHTPLVIIAGVGGDLMIEFVNSLCQQYSDRSIDFLLCPVHHQYELRQQLIKLDCELIDEKLIEQNRRFYEIIYVTRSNSSSQINSDSTTAKISAVGTKFWQCNNDQERDIAKRYLNKVLTHYQKINLSNPQKASQTLQDYLAIKALI | 0.113 | | 74 | In | 0.657 | In | -0.19 | S |
| >095269448beed9d61f836251c014ce08d2adf002 |  | |  |  |  |  |  |  |
| MPAMTDSDKKTPLYRRVAQDLMGDIATMPVGSILPTEVELAARLGVSRATIRDAMEILVEHRMVERVKRLGTRILRNTPGHRYVQHMDGLAHALEFAGQSLMRIDDTAIVEGSGGEPGLAALPNATGQWLRVTGTRRLVDDDAPSTWTRVFVPGRYQGIAPLLHGELDSVYAVIERVYSLKVARLRHRVTAVALPGYASGALGLPAGAPVLQVSAWLHEADGALVEYVRSLHHPEKVSIDFSAAQSS | 0.227 | | 35 | In | 0.604 | S | 0.65 | In |
| >b74e36f95d1d2c0eb3fd7d4c41d824b7bc9aeeab |  | |  |  |  |  |  |  |
| MAGVLKKTTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKLEDQLQGGQLEEVILQAEHELNLARKMREWKLWEPLVEEPPADQWKWPI | 0.679 | | 98 | S | 0.655 | S | -0.98 | S |
| >b7c63d40991e2743096bccd5d19f6e00315be7fe |  | |  |  |  |  |  |  |
| MTTKITMEEMRAAYQRTAPFLHKTLVITSENIDEKVGNGTHVLFKCEHLQKTGSFKARGALNSAILAKEKNAKGMIAHSSGNHGQALAWAAQKIGLPCTIVVPKNAPISKIEGMREYNANIVFCEPTVTSRESVCADLTEKLEYYCVEPYNCVSMINGHSSVAFEILEQVGNEIDSIFLSVGGGGLASSVAFLIGNLRPDIEVYLVQPAQKELSNFLENGIKCPVDTLDTIADGVRVARVGPLCEPILKQYCAQKVISVKEDEIKEGLKLIWTRMKQRIEPTAALAFAGVLYHKPAHIKRPLVILCGGNVDTNYVIN | 0.557 | | 85 | In | 0.985 | In | 0.95 | In |
| >3aa497df6b524b407ff3f52dfb0508bbc90ea88b |  | |  |  |  |  |  |  |
| MTTPNNGVKLIIFDKDGTLLDFHKMWMPYATTTVRLLEAATNLRVGPAIYKTLGVDPVAGKVSMGALAEKTLTGIREDISLTLQTFGLLPVEADAIVQGCVPEASPGEMSPVCDMPALFTTLKSMGIKIAVCTADSRAATMDQMNKMNVIPFLDDIICGNDVGIVPKPSPHCAIQICKRLGVELKETLMVGDTIADLKMGKIAGLRASVAVMTGVGTRDTLAQYSDYFLEDISELPHLITKTMTEDTKRG | 0.336 | | 73 | S | 0.574 | S | -0.1 | S |
| >a7c75265a443a5a983e342c2fb572d601cdace03 |  | |  |  |  |  |  |  |
| MEDSLTTITTAAIIGAGLAGCECALRLARAGVRVTLFEMKPAAFSPAHSNPDLGELVCSNSLRSDDIASGVGLLKQEMRELGSIVMEAADATRVPAGKALAVDRDLFARHITAVIEAEPGITLERREVASLDDPALASADVVVIAAGPLASAGLSDSLAAVVGGQLYFYDAIAPIIAAESIDLSIVFSGSRYGEPGEEGDYLNCPMNRDEYDAFYEALLAAEKVPSRDFEKELHFEGCMPIEALAERGPRTLVFGPFKPVGFTDPRTGTRPYAIIQLRAENRNKTAFNIVGCQTKLKYAEQERVFRMIPGLAGAEFVRHGSVHRNTYVNAPRVLADDLSLRADKRVFLAGQITGVEGYVESAACGMWLGMVLAARIQGRELPTPPPQTALGALLMHLRTPVKNFQPSNANFGLMPELGLKVKKRERKPLYSARAREHFVRWLAEAGVTPVIEPLLPTAPDTTGAAGEETTQAESLEHHHHHH | 0.508 | | 46 | In | 0.552 | S | 0.06 | In |
| >89bf8639f942257385796abbeda7f9b54693f361 |  | |  |  |  |  |  |  |
| MATEGGGKEMNEIKTQFTTREGLYKLLQHSEYSRPNRVPFNSQGSNPVRVSFVNLNDQSGNGDRLCFNVGRELYFYIYKGVRKAADLSKPIDKRIYKGTQPTCHDFNLLTATAESVSLLVGFSAGQVQLIDPIKKETSKLFNEEV | 0.543 | | 57 | In | 0.545 | In | 2.16 | In |
| >17d4076bc67ba8d758a3a910d002d34eee185def |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIILDTIYFILKKKGGVWVDLDMICLNYIDLNEEYIFTQEVDEDNKKSRITTSFLKFSRYSDFGKNLIQEAEKIINKRKKISWGVIGPWFLADHVKKCGLENFVWDYKRTCQIPWCNVKIFLDNTSIDISQPFLHLFSEMWRLNNMEKNTFHQMGVYGQLLKKHEIEKLYNQINTCLKTSMLDNIASFLTKFFIKKL | 0.128 | | 73 | In | 0.748 | In | 0.84 | In |
| >b38395936a3fbf8fe3e767ce88644120f3a846fd |  | |  |  |  |  |  |  |
| TPQYRTDEVELCCSPVELFHALGGRGALLEFEGTAIIAIPSGQVAHHIEELEVSGISVAPEAWAPPGWYGYIGYEANDATFGTAVHAPKPAEFPTTAMMYCTEVIAIRGDRAQITAPSSRWGRLRDAVVAA | 0.74 | | 52 | S | 0.707 | S | -0.99 | S |
| >43cb7ffc6666a54de4d2d5d4ba7547ab45464d12 |  | |  |  |  |  |  |  |
| MSLRTQQQWLQTRVTAPYAGMYVPTIAAPGVDGRSYTLGAAQGQPQVLFFFTTTCPYCRRSAPTVVRAARQLQANLPGRPQLLGVCHCDPAQAARYAHVHGFDFPVVTLTDRRALMLFRARNVPLVMAVDGEGRVRHSHVGLFDTTERVQDLVAALRRTDAPAALATVKEGHHHHHH | 0.68 | | 15 | In | 0.802 | In | 0.46 | In |
| >98f68a7042a8b63c2ff33ec2edce8da555c028b7 |  | |  |  |  |  |  |  |
| MLKPGDVVFYSRGTESTDFCDAVEKVVPDNTYYHVAIVSERGTIVEATGDGVLEYSLQKSIEENRPGCLEILEVANCCEKVLEAAATWSWTKLGLPYNDLFAADLINSDGKESYYCSQLITAAFEFAGVDMKWPAHTLNFNDKNVNQISFWNEYFEKRGKSQVPQGEEGSHPAQLRRSPRLLLKMRIFPNLINLNSLTETKLLELSSHFVAGNHVEFPSDRKFEVIEPRSGKPMATWHYATRDQVDLTVKEAKKAQKQWAKSSWMERSEILKKTGDLLKTHCNDIAYWECISNGKPIAEAKADVLSCVDTFYFYSGIASDLLGQHVPLDASRYAYTRRLPVGVVAAIGAWNYPIQTCSWKTAPALACGNAVIYKPSPLSPVTALILAEILKSAGLPDGVFNVIQGDAETAQDLIHHDGVSKVSFTGSIPTGKKIMKACADRNIKPVTLELGGKSALIVFDDADIDSAVSCAMMANFYSQGQVCSNASKVLVHKSVLKEFTKKLVDHTQKMKIGDPLKEDTQVGSHISAEHRNKVEGYISTAIAEGATKLCGGDRVAVHGLENGFYLSPCILTGITPKMTVYREEIFGSVLLIIPFDTEDEAIKIANDTDMGLAAGLVTKDLSRSYRVSEQLNAGNVYVNTYNDVSPLVPFGGVGESGFGRENGTAVLEHYTHLKSVFVNTGTCPNPF | 0.545 | | 78 | S | 0.788 | In | 0.53 | In |
| >8ff12a5436d1c8f9ba5bdcf9344b8152a5cda449 |  | |  |  |  |  |  |  |
| MLAIPHAGALNLTKHGYNPIAYRAIKIGGNIVKVIFSIDLFLRPGTRKTLPAHQPARRRPKSEKAIPRIIWQTNYSNRVTTPIYANFLFNRWLTPEFEYRYHDDEACQAYIDRHFPGRYADAFRRLQVGAAKADFWRILVLLQDGGIYLDIDSNFAARPEDAIGPDEEAVFIAMKDGEVTNYFMASRPGHPALKLIADRIAQNIEEGTLVSVYDMTGPTVVHAVVKELGLPERNYREMCTQGQFTNKRAQYADKKDGAWWAEQAKTSILKSLEHHHHHH | 0.507 | | 26 | In | 0.633 | In | 0.86 | In |
| >d898f090b33afed2ddc6a940793fdc5dc67dd215 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTSVKTNTTQDIAARFYALAKEEKWFEIQDELFAEEVKSIDPVNSPYMGYAEGKANVRKKGADFVKKIRDFHGATTSAPVVAGNHFAVGREMDVTVEGFGRIQLNEIMLYEVKDGAIISEQFFY | 0.106 | | 94 | S | 0.746 | S | -0.74 | S |
| >b8e9e69a05cf59737130f4dc157af60525f26e7c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMWFACSPGYRHITCSVMRPSQTGLPSMLHSHLTTLNAVSLILNVFQADGCEASALLAGSGIGPADLGHADARITTQQELQVCANAVARREDIGLELGQRMRVSCYGMLGYALLSSATLGDALRLALQYPALLGTVFKLRLLDDGQRVWFSASDYQDSPALSAFNAEFCLVSLKVICDDLLGRPLPLLGARFEHPRPGYHALYAGAFQCPIGFAAEDNAFAFERRWLDMPLPLADPITHKAMSERCRRLNLEFTGRQAWLGRIRQLLAQQLDAAPGLEGLARQMNCSSRTLRRHLQALGSSYQQLLDELRFERAKQLLADEQMPIYRIAETLGFSETASFRHAFQRWSGVAPSHFRG | 0.164 | | 13 | In | 0.528 | In | 0.83 | In |
| >84602ce16bfcd76292db26d7dcd12cf927146d2c |  | |  |  |  |  |  |  |
| SFSVFEEITRIVVKEMDAGGDMIAVRSLVDADRFRCFHLVGEKRTFFGCRHYTTGLTLMDILDTDGDKWLDELDSGLQGQKAEFQILDNVDSTGELIVRLPKEITISGSFQGFHHQKIKISENRISQQYLATLENRKLKRELPFSFRSINTRENLYLVTETLETVKEETLKSDRQYKFWSQISQGHLSYKHKGQREVTIPPNRVLSYRVKQLVFPNKETMSAGLDIHFRGKTKSFPEGKSLGSEDSRNMKEKLEDMESVLKDLTEEKRKDVLNSLAKCLGKEDIRQDLEQRVSEVLISRELHMEDSDKPLLSSLFNAAGVLVEARAKAILDFLDALLELSEEQQFVAEALEKGTLPLLKDQVKSVMEQNWDELASSPPDMDYDPEARILCALYVVVSILLELAEGPTSVSS | 0.668 | | 86 | In | 0.643 | S | -0.67 | S |
| >ef9641a57270c72da3b6406f7abf3d59d34d6c3f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKILQINVFNYRKGGSEVVYFSTMELLRMHGEEVVNFALRWPENYPSEYESYFPESKETRSELLKPVKNIINYFNNREAARKLEQLIEKERPDLAHMHLIWGQITGSILPVLKRHNVPIIFSIHDYRIVCPAYTFRNGKGEICEQCRGRNFYHCVINKCTKDSYLLSVMMAIEQCYRNRFFNPAEYIDGLIYVSQFAKQMHEKYMPELKEKRNIVLYNLADKILDAPAQKTDRYFLFFGRLSYEKGVKTLISAFKDMPNCNLKIAGTGPLEDELKDYTKSNNVTNVEFLGYKSGKELTDLVENAYFIIVPSEWYENNPMTIIEGYAAGVPVIGTNIGGIPEIIEEGVTGYLFTPANSVDLTRVVKAADSLPVEQYSNYQQNALSFARKHFDREKYYPQLIGFYNQLVK | 0.204 | | 39 | In | 0.871 | In | 0.86 | In |
| >fac8fe7a9d97f8a6aec5c8e6cd3c52f165b358c3 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAEAAEQSAQNLNSGTKPVDPRHAVDEAKLAAWLEANVEGYAGPLEVRQFKGGQSNPTYQLVTPARKYVLRRKPPGKLLPSAHAVDREYKVISGLNKADFPVAKAYALCMDEDVIGTIFYVMENVEGRILWDGTLPDYQPAERRAIYEAQIDTLAALHNVDYAAVGLADYGKPGNYFARQIDRWTKQYKASETKTIEEMDRLMEWLPSTVPSDDQTSIVHGDYRLDNMILHPTESRVIAVLDWELSTLGNPLADFSYFLMNWVMPSDQRGGLSGVDDLAAYGIPTIPEAVARYCKATGRDGLPELDWYFSYNLFRLAGICQGIVGRVRDGTAASAHAQLMEARVPVLAKGAWDFARKAGA | 0.314 | | 38 | In | 0.526 | S | -0.08 | S |
| >c6d4ec3978559ac58a5914ac9b618670d30bae35 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKIALIHYRGGLMDGVSLEMEKWKKVLTKMGHEVHIVAENKKEGVDLTLKEIGFENPDFERVNRNFFGGIKDFLSEKEFLDFLKEKEEELFHILNEALKDYDLIVPNNIWSLGLFPSLGLALSRLEKNFVAHHHDFWWERKHLIPENRRFREILDKHFPPDLPNVKHVVINTIAQRELKRRRNIDSVVVPNVMDFSSPITSEEMYHRVREELQIAPGTIVALQATRIDRRKTIELSIDVVSLLKETLTSKKEADLYNGERYSGEVILLFSGICEDEEYLKELKEYASSKGVSLLVLSEEVRKNTSLFWKLYNAADFVTYPSILEGWGNQLLEAIAAKKPVVLFEYEVFKSDIKPAGLKYVSLGDRCFRENGLVKVDERILKKAVEEISRLLFDPSLYRETVEHNFEVGKRHFSLERLEDILSREVLP | 0.398 | | 93 | In | 0.804 | In | -0.29 | S |
| >95aa542f0207aa5e9b6af379734d8680d2b72f54 |  | |  |  |  |  |  |  |
| MLSRFISTFRSSSAQLSIVLAVILATGCSQPTTLQEIREEGVLHVITRVAPSIYYQDREQDTGYDYELARLFANELGVELRVRVADDNSEILSVLSRNYAHVGLAGLTQRPDFDNQYRSVPIGVSAQSVIVYHKEVPAPESLEDLASETIHMLADSNHEHLIADPANEAGPIIQKHPGLDAAGLLARVESGEFGYAAVASNELDLNHVFFPKVYEAFALNEPSDLVWLFPAAQDDTLVNAAEAFMERVNNNGTMAQLAERFYGHLDRLNYVGARTFMHHVENRLPRYQSLFKDYAQESGMDWRLLAAIGYQESHWRPNAVSPTGVRGLMMLTRTTANYIGINNRLDAEESIEGGARYFRMVHGRIPDRIPEPDRTWFALASYNVGFGHLEDARRLAESAGKDPDRWMDVKEFLPLLAQKEWYTKTRFGYARGHEPVVYVQNIRRYYDVLVRITEPDAPSASGLEDQLAWLGDNLEHHHHHH | 0.368 | | 24 | In | 0.782 | In | -0.61 | S |
| >813fbe7c0c20ad67889ac606909041535b5142ee |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLTICSHPSKKFGFNSNKLRKIIIVIGYATVKNPPSLWLRKHRGESMIRCHLARLMGERKMRISDVMRETGLSRTTVTLLYKETALKVDLEALDKLCDLFNCDIHELLEKSPAASAVNENTK | 0.095 | | 82 | In | 0.665 | In | 0.42 | In |
| >8afc05567be314b9deee7e5afcf3adfcea1fa80c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMITVVDLGNFNIKYKSGSNQGNFSSKITDYQPYPEGFERIQMQGESKITYLGVGELNKEFNKVARNYLPQLLYAICRANNYDNIETNLVTLLPIVQMKNKEKMIENLKEKEFNFQFNGEKRKVLINDTIVLPEGYATYFSLSEEDKESSLCIIDLGSRTINICVLQDGAIQLLHTIKLGSFDFYTKVKTRENSKGEDYTEEDIPRLVENGTIEISDIEYEDFLTEVLNEVKAYVNLKTYKVIWTGGTALMLKEQIEKLPLNNSKLHNDPLNSNTNGAAGAAEIIWQSEEE | 0.411 | | 71 | In | 0.593 | S | -0.24 | S |
| >2d872d8fd2c2622847b684cdf3e057d3b5d910e1 |  | |  |  |  |  |  |  |
| MYKRWVLRHILDSFSAGKWHVYRVRHEAGSLGTCIFHLTGRQVTLLHESLTELAELAPQCSDTPTVRGVLAESQDLVRNAIDHGERPQALVEWFSRLVTDVLHSEAIADMTGGAQLVLTGAIGRGDALPSSPIKWLTVGESHVDTTPVSDLITSVGLVAEHTRLGPTARTKQEWLSMIGTAQGSDLAVFADAGTWCLEEVVALPDHRPLLIDAIEHRPPTLRIHDGLPSRDMVVDIRKDLLYPIIAIARWAGVAAHSTDFSTRRRIPAAVAAGILTTSQADFLRQAWDAGLQLQFRRWTDRVHSHAATAESLPAIQRSIYGASSRLVSDVIRALAQQYGIPLKS | 0.304 | | 21 | In | 0.863 | In | 0.11 | In |
| >dec224be0610dd1e04b4557a10cd8441f378f822 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVDLIVDMRFGSHLYGTQTPSSDLDYKAVYLPAARDILLHRVRGTITEKVEKAPGEKNRPGDVDRDTYSLQHYLDMLAEGQTVALDMLFAPDAAMTRPPSPLWREIQANAPCLVTRRSAIVVRYCRRQANKYGIKGSRVATARQALAVLTTAEATYGPAARLGEAEAELRAFVGAQDHAALVEVPSSEDKPLRHLEVCGKQMPFTASIRNARETARRLVDDYGQRALQAERNDGVDWKALSHAVRVGHQALELLGTGKITFPLPNAADILAIKRGEQPYETVAATIEHLLTAVETAAATSTLPDEPDRDFIDTLIVRAHRAKVLEAP | 0.325 | | 56 | In | 0.823 | In | -0.17 | S |
| >f9d66ec3d918988e02c35c8854f59156a64d493c |  | |  |  |  |  |  |  |
| GDEPQGLFSLGSLESTAAVRIPSTLAHFNQRYPKIHLALSTGPSGTMIDGVLEGALSAAFVDGPLVHPGLEGLPVFPEEMMIVAPYGHAPITRASEVNGANVYAFRANCSYRRHFESWFHADRATPGRIHEMES | 0.445 | | 39 | In | 0.508 | S | 0.79 | In |
| >ca9bddf721324d2148bf56bdb7d37a4a1f30bdeb |  | |  |  |  |  |  |  |
| MYIRELSLRDFRSWPECTVTLEPGVTLFVGRNGFGKTNIVEAIGYVAHLGSHRVFHDSALVRQGKESARVSVTAVNHGRELTAHLLIKAKGANQAQINRTRLKSPRELLGVVKTVLFSPEDLSLVRGDPAERRRYLDHVIATRKPRLGGVKADYDKVLRQRNSLLKTAGAALRRGYGADDGALSTLDVWDSQLARLGGQLIHARHSVVRELGPLVHDAYARIAPESRPAHIRYVSTVPFADVVELPSPEEFEAAMLAELGQCRDKEIDRGVSLVGPHRDDLDVVLGDYPAKGFASHGETWSMCLSLRLAEFHLLRNDGTDPVLILDDVFAELDTQRREKLVSVTAEAEQVLITAAVGDDLPDTLTESAVHRHFVSVADTPEGRISLLDAATGVPHDG | 0.517 | | 70 | S | 0.819 | In | 0.07 | In |
| >e7a6cce1472472dbaff0b78fae65da3030fdaa32 |  | |  |  |  |  |  |  |
| MTTHFFARLTGKREVPPVNTEAFGVAEFIFSDDLTKLHYRVILKNIEKVTSCQIHLGKSTQIGPVVLYLYGPLEQGISLNEGSITGVVNVEDFEGPLQGKSFVHLLQEIIQANVYVNVHTKSQKRGEIRGRVRKVKKLEHHHHHH | 0.762 | | 82 | S | 0.609 | S | 1.41 | In |
| >c500776497f05b4aca6b4bbfc3b1f26bde399286 |  | |  |  |  |  |  |  |
| MAHHHHHHMTMGASDDAALSSEASLRSSSSGSSAAPLSEDDDMQDKRARCAALKSLSGQHTVETVEVTKLRLQREQRLRRVLSQRHLGQPEPVPQNAFYCTRAALSEEDTVWLYTLTNRACFERLMHDVHSTAMPALAGQLDAVLSHANPLFYFSYRMPVKVVDGAGDAAATSLREAPAMRRWLEDTPPVLRKRPAPEKEDAGQQQRDADGELARGALQKHPKTSASSVSASSGLVAQSMKAWEAHLTATLTEEGETIENFRHSRTKSSYTDKKRFQEKAAWQEYVREVRIQAQQRDREMKRALRRGEMDEPRG | 0.376 | | 43 | In | 0.973 | In | 0.59 | In |
| >1bb94d05b991ca89ebd2ecba46f01d8d932b619b |  | |  |  |  |  |  |  |
| MISNFKSPEPELQPISPPPSIHDDLINDMDGGMFGSEKTDDSSLEDLQLHVQEMDKNTMLTENFDQDQEELKLFVQELEQNAAETINNSSHQLENALKAEENIETEISEEEASDDEEEDNFHTMLQEQAARHKEEMEKVMKKRAEQKKKLEELNRKVNAIVFYK | 0.662 | | 100 | S | 0.627 | In | -4.09 | S |
| >af4c55c2877b3f3a03aa6379117701f83d66725f |  | |  |  |  |  |  |  |
| FHSGAPLFDEADGVRALRIKLLDILAEPRLLKILDYAALFDKEKLPLAVFVGWMQKWLVDLGLCLQHMKPVYYPAYEDRLLQTVSGFRPRNVFAAEDMLKQLAPYGFHTLNVKMQIEHLLINYLELKKENG | 0.245 | | 85 | In | 0.524 | S | -0.24 | S |
| >dd45348f655de0b3495963678b1ad0b24e649119 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLKSWQLLKSFHCRSNSFINQEREVFMAKYKLDVNIANVNEVYDGAGGILWEMLMGEQIHVGAEAETDVLARKAGVTAETHLLDVCSALGGPARYLAKNYGCRVTGLDATQRMHAEAIRRTIEAGLSGKIDYVLGNALDMPFPASSFDVVWGQDAWCYITDKQRLIGECARVLKPGGVLAFTDWLEAGPMTDEELTALNTFMVFPYMETLDGYAMLAEQAGLTVIEKEDLTPDFAAHVQGYLDMVQNQYRQAIVDNYGQEMYDAVEQGIMLWRDASAAGKVGRGRLVARK | 0.147 | | 45 | In | 0.522 | In | -1.01 | S |
| >aafd3fcab24e4cd1b413fdfe6e4ea8793f65f850 |  | |  |  |  |  |  |  |
| MVDAPGTEVNDTRVIIGKGLSLDSIKFPDFHMFDTNWKMKLHAEWSEELETEVVSIKLRHRRRNVDDIWSMDATVKIHFEQDWLKGEVQVDSQFSNQGQEIEILNCGTVVILNAFSNSSTFCESVPDKSVKRHYSSGGWREIPCKSNESDLVKQFEHIQRILRIGKSLQISIVLEVADKWLVKYGRHKLGDTLHLVQAFGLRKLMKVRIATYVVQNVQKRQLTSSCVFKSVQLMQFIQFIQ | 0.351 | | 61 | In | 0.514 | In | 0.72 | In |
| >88a2f36496184903ab80598b945d40506ae71f0d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVMKCIPWSSFPGGKAGISHTGPAHAISSGGAMNDSVTRITQAMVLNAKQSKWVAERIGKPYPTMMRELNPYDQSAKLGADTLLEIMRVTKNISALEYMAEELGYKLSPGAEQHPMQEEQEHLADSA | 0.205 | | 95 | S | 0.601 | S | 0.89 | In |
| >0932111c323359291048b8ed06a7b6b47e013a20 |  | |  |  |  |  |  |  |
| MFSRVLALLAVLLLSANTWAAIEINNHQARNMDDVQSLGVIYINHNFATESEARQALNEETDAQGATYYHVILMREPGSNGNMHASADIYRLEHHHHHH | 0.481 | | 28 | S | 0.594 | S | -1.27 | S |
| >04cc11201aeb5f823f06a6f762d696aec7efa089 |  | |  |  |  |  |  |  |
| MRIFWLKALTSGLFYLPLSIKNGLCRLVAKPISRKKMAAALTQLNYALPDLGDVKKQAIVEQSTRLSLKNLLGFCHLKRYQYQVEQPDLVQEILDNQGGGIIVCPHMGVYDGVTWWLNQQGKKAVTIFGAGSSGDRPDENAMISQAAKLAGVPYLLRKQNLMLELAQRIKQGEWVVLHTDMRTEGVPVRWFGQATQLSATPFFLAHKLACPIYFHYALSEGMTQRLHFSRFALHQTDDLSRNIAQDAQQLADMMQQAITAHPEQWIWLYRRFK | 0.224 | | 31 | In | 0.757 | In | 0.86 | In |
| >5358094be3fcbf70e291fc391597230223932af0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAWRAAEPSDLAWIEALLFAHIEGAMFLIGNLRDHGFGSDHSHGLTLWVREARDGVFGITNSGSVMMMAPGATRRDWQEAGQLLAGRDVTAVLGKAMQARRFIAANDIGDHPCQLDRDDPGFVLDLRDVSVEMRPEEALVPLAEAPRGLVEGWRAAYEVEVLNAAPDAARDKARHDIATYIARDSHRVLTVQGEPVAMSGFNTAFDEAVQVGGVYTPPMLRGRGYARRVVGRHLLEARERGARQGVLFAAGKDAARAYRALGFQPADAFALVLFSTPAQICAGRVEDVR | 0.285 | | 27 | In | 0.625 | In | -0.17 | S |
| >972a9c67fad7bac93e39ff402aef027de6b87e57 |  | |  |  |  |  |  |  |
| MSLKKDLIPDPFEKTREAAGYGEMNDQNDPVTMILRLKDVRKCAHNFKTFQSGARPGRIVVPSEVSIRDTRQIPFEVDPPEHTDYRALVEPWFKRPLEAEYREKLSQQIGYIVEERLARDAVEVVEEFSLPLQSRALTLLLNIPIEEAETWIKWGTHVFRSEDSPVDGDKAKILYDYIDQQIDRALEKPGEDLYTVLLNSEINGKKLSREEVKGVMILTFAGGRDTVINAVTNSVAYFAVHPESLELLRKEPEITGRAVEELIRYFAPLTHMGRVVTEDTQVCEYAVKADSRISLVWASANRDSSVFEKPNEVVLDRKINPHVSFGFSHHNCLGATHARQIMHILLKTLAEKVGSIEIQEHEDNIETWGEFERKVGYDRLKVQFNPLQEGHHHHHH | 0.671 | | 88 | In | 0.588 | S | -0.79 | S |
| >c98eabad06fea5fb70565e38d3f4358f551c63e7 |  | |  |  |  |  |  |  |
| MATVPTRSGSPRQLTTKQTGDAWEAQARRWLEGKGLRFIAANVNERGGEIDLIMREGLTTVFVEVRYRRSALYGGAAASVTRSKQHKLLQTARLWLARHNGSFDTVDCRFDVVAFTGNEVEWIKDAFNDHS | 0.516 | | 25 | S | 0.526 | S | 1.22 | In |
| >f7d5070cf1ae58d696a447b3295fafe86fd858ab |  | |  |  |  |  |  |  |
| MNYFELFGLPIQFELDGSLLSSQFRALQKRFHPDNFATASERDRLMAVQQAAQINDAYQTLKDPLRRAEYLLSLQGIEMNAEQQTLQDPMFLMEQMELREELESVTACADPEAALVAFDTKVTAMQRHYLAQLQGQLAQSEWLAAADQIRKLKFIAKLKNEVERVEDQLLG | 0.433 | | 84 | S | 0.603 | S | -2.17 | S |
| >27e03a6f9252541ce53eaa036e4d4c2791cfee6f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEAKLSSIEIPVGQDELSGTLLTPTGMPGVLFVHGWGGSQHHSLVRAREAVGLGCICMTFDLRGHEGYASMRQSVTRAQNLDDIKAAYDQLASLPYVDAHSIAVVGLSYGGYLSALLTRERPVEWLALRSPALYKDAHWDQPKVSLNADPDLMDYRRRALAPGDNLALAACAQYKGDVLLVEAENDVIVPHPVMRNYADAFTNARSLTSRVIAGADHALSVKEHQQEYTRALIDWLTEMVVGRRIALAKEVVAARKQLLKEQQGDAVSLPGQGSREFRGDIRAVEKTSA | 0.281 | | 41 | In | 0.672 | In | 0.14 | In |
| >f7c8a28394f56ebcd96d624678f1e79c3ad5982b |  | |  |  |  |  |  |  |
| HQNGGFPERSAFFEAMRINNGYGLDCNGNTDVNDVCSSAPQPTIAVLGNSHSMVYVKRLSEVTPTGVVQLTQDSCAVGYVDILEAAGSISCRQFFKQAVDTILRTPSIRRVVISSNFNKELSQADYEASLTGLLNELEGKE | 0.592 | | 37 | In | 0.535 | S | 0.73 | In |
| >2a26ba9529b6c7d9fb9a57204c3211cc91de3f60 |  | |  |  |  |  |  |  |
| MARSEKEPSNKTKERYDLFVDCYLQTFNATQSAIKVGYSQKTARQQGHKLLTNAYIKEKIQLEMKRLRDRMKDEGLRSFSMLLDIAMQTEGKIQDHNEAEIAIDKIKSELSDLELEMLKANNDLEKVQKAADAIDGRKKEMRSHKRSLLEQIDSIKKEYFELNLERVVLLNELSKHQSRYLDAKEWEKLQSLKKSIFQDILDRGGFKAIDQIQHSGKVDVNPLANLSEEELRRLANGPRAT | 0.689 | | 96 | In | 0.722 | S | 0.33 | In |
| >7c19de21e3916169bd9b28b6c61b67e7cc404337 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPNAHDKSPANKSAYEAYLTRAVFYEVTGTTSNSLVGAAFATDPSFKFPPELAHLERNANGAGLSTYQLAQNGIRHLLKHYRCALYVDYPDVPPARNLAEFKAQKAYPMIHLLNALDVVNWDSVMVDNQKKLCLVVIREFRSERGADGFSKTEQEQYRVLRLEQEGNGEYIYSVQVYTKGEKGNWVGGDKKFPTDYNGNFWTYIPFTFVGAIDNSEEIKKPPLLPLANLNLAHYRDSADFQESVFYMGQPQYYAKGVNWEWYDQAKKRGIYIGAKVLLPLPENGGLGIVQADPNTLAREAMKDKWEKMKEMGARLIEKGAGGKKTATEANSDDAVQHSVLSLCVVNMNEALSAALRWAAKFVTPNVDVLTKDDLMFEISQEFNKQGYLAELARQLFEAALQGRSSFKSWWEYNQTGMFPKQKYEEELQNVEAEQDGTLNQKVE | 0.312 | | 74 | In | 0.629 | In | 0.37 | In |
| >685fbe3d3d35b73b843fa04a2464f0c431516da7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHSFCNRTEITMHGKWEEFHDEVAARSLPSIPITAYTDGQNIYIENTSPDCDIQITITGNQTGEVMYEQLVPQAQTSYIIISIASFPSGEYTLELTSEDGKYLVGAFKR | 0.15 | | 88 | S | 0.763 | S | -1.33 | S |
| >8530fec11c036c48a8c4bb6d956ea71bf216396a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNLDWYYTFVILAKTLNYRLASEEINLTIPSIHKQIKNLEQHLNVKLFETYKNQIILTEDGHTFLPIAQSFIEQYESGIKHIQLKKTMFQSKLNVVVSSYIATFIMPKFLKSFFNEHPFIDVSLHVKNENIEKDINNHTYDIGISRNQPKLREVHSEKVCEGKIVLIAPNKENNHLLTEASLFEKYKIISDNHPEYWSSLKNNILNIYGKAQFLSINDVHTSIKLIEMNQGISFLPIYITTDSDYNISVINTKILQAPISFTYIYSKKESPEILVFIKSFKKYIANEQL | 0.148 | | 77 | In | 0.894 | In | 0.94 | In |
| >82026974acaa35ed53865c99b7cdb9f40c21c30b |  | |  |  |  |  |  |  |
| AESQVLKVGIRIALMPVIAGVSYEIIRLAGSSENPVVNVLSKPGMWVQMMTTKEPDDSMIEVAIRAVEEVFDWKAYLEENFSKTEESFGENKCTQEECAL | 0.724 | | 93 | In | 0.6 | S | -1.72 | S |
| >89f2e121787c3671a15721c33dd0ac30b67f3ceb |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPVIALNPGYAGETRDRVENFHGNQLVYFGWDQHLLFCSPFTLPLPPDMPFGTMVSDVIAPLLAAHPEGAAIDWTQVQWLLGGEPFAPDADASLAVNGLGHKSLLRLRTPELRGIAGSCN | 0.111 | | 66 | In | 0.615 | S | 0.27 | In |
| >87c665cd42ed29f362f246e0c0c166642700470f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHGDKTDCEVLHVDLVERPVPTEELFSKISVIPLETNDSSFLVRPVKVIIKDNGYYIVDEGVPAVFSFDEEGHLLHKIGKKGQGPGEYREIYDAVIKEKENAVYMLSPFGSLYVYSLDGKFIKEIKLPTRSNYQLIEELDSKYFVTWTLPASENENCISVISKESFNNVKEFWHVPPVLTTLNSKPFYNYEHKVYFSNPYQNEVYEVRTDSLRVAYRWDFGKDNLDLKEYGFTLLEDQKVEEYKLMLQCLRDSTVPYLLRHQFQNKKYYYTMLTFGFRHRINLFYRKDDGKSFFFEKTAEGVLLHPLAFNEDFLTCIVFNEDFPNYEKVLPSEEYKKLEERLEDDNPCLIKFYFK | 0.493 | | 88 | S | 0.524 | S | -0.6 | S |
| >35213f69525b9ab702689f774eed6f946c4928e0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSKQLHFCFHGAGGLGSVIGGFLARGGHKVTLIARKPHVEAIRRDGLSISGVRAQFVQRENLFAVETPEEVEGDIDYYILLTKAKGTDQALADAQVLVDRTACALTLQNGVGKEGKLQAAFGKDKVIGGSIMDGATLLEPGKALNHMAVPVTAYFGELEGGESERTRIMAEALDAAGMGSRSTPDIVHVHWEKVVQVGGASSWSASTLGALPKLDFVDGVAVREGAEHYVHVVKDLLAIYKALGYEPQNYFAPVSRLVEIDREGFEEAVSGVMAMGTRFKPENRPVRTSMHDDLVAGRRMEVDEVLGPLAAAAEQLQVPAPAFLSAYRVLKTLNSYL | 0.368 | | 69 | In | 0.587 | S | 0.08 | In |
| >04f111234db2cdd3481c6ecab50c7881b0f7cf6c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPKLDLDSIERRIGSVYPGRLNAAMDGRSSLRLGDAGGLSQFGVNLVRLEPGAKSSLRHYHMEQDEFVMVTEGALVLVDDQGEHPMVPGDCAAFPAGDPNGHQFVNRTDAPATFLVVGTRTPTETAYYSDMDMMVKQDASGFAFTRKDGSPLTADQIGDDNE | 0.163 | | 64 | S | 0.563 | S | -0.56 | S |
| >fec090ae67dfa2e53007fe9481817bace19bc9a9 |  | |  |  |  |  |  |  |
| MTGVDDISSNVHKLVGVTAGMNTAASTGPMNLVLDKCSVVLEELRTIQILTETHSEGLSEQLKMTEKNILEMENLFDQIDQLCLFVQKAKSDLDKLEKLYNVVDRQ | 0.465 | | 98 | In | 0.627 | In | -1.78 | S |
| >a9bdb70164fdd837643b921379dae6a2229245dd |  | |  |  |  |  |  |  |
| QLIFPEQANGSLIERDGKIIGSSLVGQQIKSAAYFQSRPSASNYSVDGMSGSNLAVSNPQLQKQIRERSIAFAQSNQIGGAQVPDDMITASGSGIDPDISPEAAQLQIKRVAQQRRLSEQEVRQLVMQYTQTPQFGLYGEPRVNVLKLNLALDQR | 0.696 | | 32 | In | 0.509 | In | 1.97 | In |
| >8079c37d9f1a5c3734a0610eeafe75b6e5fc11d6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIKPSNYQPPYTITPAIVNLVAEIGEIIGRYTVLAEQNLTPRLRRENRIRTIQASLAIENNTLTLEQVTAVIDGKRVLGHPREIQEVRNAFATYEAMEDWDASVEGDLLAAHELLMRGLVDETGRYRSGGVGIFRGEQLVHMAPPADRVPKLMADLLDWLENTNEHPLVASCIFHYEFEFIHPFADGNGRMGRLWQTLILRNWKPLLAYLPVETVIRDRQEDYYRVLAVADSQADATPFVEFMLGALRDAVREAVSTDHVGDQVTDQVAALIRAIGGGELSSNDLMQALGLSHRPTFRNNYLNPAMEDEWIERTQPDSPRSPTQRYRLTGKGQRWLQHHADE | 0.189 | | 30 | In | 0.676 | In | -0.63 | S |
| >003b0091513a4a4271ab9a9780557e7cc8b5e0e7 |  | |  |  |  |  |  |  |
| MEKKVIKIMRNDGKVVEYRGPMKVHHILTQFSPHYSLFDSLTNNCHLHPQAKLLCGRLYYLLPQETNSIKHMKKTMKKVRFANPEVEKEEQEEDRLTDCCDNTKEKTNGVVRVKMVVSKQELEKLLQGGSVHEMVYRTLAKQHLCDDDDECHKEGWRPLLDSIPETD | 0.561 | | 99 | In | 0.647 | In | -0.01 | S |
| >e9abb75ab11d42ad526c027d2565faf091107f94 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSFFLNSLRGNQEVSQEKLDVAGVQFDAMCSTFNNILSTCLEKCIPHEGFGEPDLTKGEQCCIDRCVAKMHYSNRLIGGFVQTRGFGPENQLRHYSRFVAKEIADDSKK | 0.123 | | 88 | S | 0.516 | In | 0.73 | In |
| >63d6747cfb0dcbdc514aa265ddf6667278d44f47 |  | |  |  |  |  |  |  |
| FASVDEALLKRGFHVAYYDLTHLYGSPRARKSGTDFYWNMVQMYGLSPRVTLEGFSRGGLFAYNWAADHPDKVACIYVDAPVCDVFSWPGRSSGNAGLWKGMLDEWGLTEVRMNTFPGNPIDRLKPLADARIPVICVCGDSDRVVPFSENSAVVRQRYTAMGAPFELILKPGVDHHPHSLENPTPVVDFIVRHQAGY | 0.548 | | 32 | In | 0.593 | S | 1.1 | In |
| >69496a7d523e1d88659b57cf28ae1d7e44188bdc |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSATHFITAPTFHRKRLFQNQKYGDLLTETLLSFRESYPVQIHDYVIMPDHVHVLLTIYGDLPANDAMQKLQRHFAEQVAQQFGYNGEVWETSFHNDQVNNAEDCARCVKKIHSNPVRVGFCDKPGEYRMSSKASRWVLDPLPENLRELYPA | 0.098 | | 72 | In | 0.721 | In | 0.15 | In |
| >2a8bbd434a41aa2794dab81019baeb8e8661143b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTQPLRIRHLAALYGPNIYRPQPGVVLRVGAAADYSDRLRTALKGGALAIGLVIAQLHVEAKPDNDDMLMSAFFTTPEPAIGAELCRYVVDGINAELGHDESWDPDEPLLALRDRRQAQALPVAALQLMANARHRDIPTTILDDGRLLIGQGERGWIVAPADLRAAPDLQPPWSRLGRILIIAVTGERYRQQAIAEQAARHQGIILDQANRASVITALADPACTALIVGFDTDSLIREGLPFDRCDLAIITDRAGSRPPTAADDDEWLRALGLPMLCSVAPTLINLTDPALHPLLSYAPNGVIGWTPVKE | 0.176 | | 26 | In | 0.612 | In | -0.31 | S |
| >f7ddc4b11f3e9327fdfb3165345f2f4576219ab0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSKHNIVKATFALLDDNGDLIKDATKGLSTDGIYVADHNGEGFSQINVSAIEAPGTPGWGNGQIKRTAYGKSMPTLALTALDLEFKINQMLKGFTQSATTGAWVRQLPKPHVAMIAESQSLDGDISIYECFNNIEFVEEASNNSTDTNSEAAYSTTLNGTVLTPLKPNIFLAANGVQQPYMIAKSNDANFSLDKLMAETFGGYTKSTSATTVVTPGK | 0.181 | | 80 | In | 0.582 | S | 0.81 | In |
| >7aa96e2359fab36211b7dbdc9f0952ab65ca8525 |  | |  |  |  |  |  |  |
| MAHHHHHHMDLGEDSTLLAVALDGEDKYWLCQPVTGKRLGPEWKFCTCYWLYLLGDNEDHGDKPWYREDLGDILEIGYNETSRIGRYSVIDDAVKAKKFVVEEGGVSRTFFFIGNDEREALDAKFEDLLKREAALASHKPDDDGDKVQSSVKASKATAAEYPTVNSDSGPGNGKQVGNEEVFAWRERYIVEHGNRIFFVCPDVDGNSSGFRVERIVRNGMTIFLLFHDEASLPCRVSESHIGEKVIHTSIMKNSEGKVLIMSTRKPNEPMSKKKERVETPPPEPPLKVQKKESVKTTASHDTPLKAIGVNMWVDFKGKVEGVTGLVNSFPFSGEVGNKMRTSVFPGGVCVTYDSSIAAKFALKKKAVSSPTDNDMVGLLENIQLAKEQFSTI | 0.627 | | 96 | In | 0.969 | In | 0.58 | In |
| >a03be48a0cb7da998518a1b7bc4c6171f84b6b28 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTSFDRPFEAARPDGENPSAHETLAEGGRLRPEATYTIPARQGRAIRMAQGEALMVINRDGSQIGDFWAFVEGDCGEYLSMEHLRPTLRRVSPRPGDVLVSNRRRPILTLLEDSSPGVHDTLVASCDVHRYAQLGHEGYHDNCTDNLRMALGALGLRPTTVPCPLNLWMNTPVVEGGAMEWRPPVSRRGDHVLFRAELDVVVVISCCPMDLLPINGEEAQPRALDVRLRPRPA | 0.226 | | 71 | In | 0.597 | In | 0.64 | In |
| >c85909c3304b3a1726632e0cad2042a4cfe6e572 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKKLITANDIREAHARGEQAMSVVLRASIITPEAREVADLLGFTITECDESIPVTASVPASVPADKTESQRIRETIIAQLPEGQFTESLVAQLMEKVMKEKQSLEQGAMQPSFKSVTGKGGIKVIDGSSVKFGRFDGAEPHCVGLTDLVTGDDGSSMAAGFMQWENAFFPWTLNYDEIDMVLEGELHVRHEGQTMIAKAGDVMFIPKGSSIEFGTTSSVKFLYVAWPANWQSL | 0.414 | | 85 | In | 0.763 | S | -0.52 | S |
| >31aff33b532983f9389caf5eea4ceb3303f3c0cd |  | |  |  |  |  |  |  |
| MHTQPQSYQAPEQTHMRIENRRIEAGKGGTNLLLIIESRVDTLSINLPTLYSLLFTTNITILMSAPQHRQLRRAAHITKIASIDLCSLEEEDHEDLVLEESGHHPSDIQNEKPNRPPYSTLIRKRSGKVFRFVRPKLADLWHSRYHEASFDLGRRLGIGRRTQSCCEDVCDEEVSVETMAITALPMDVWLKERLKKWVQLSGHEGSIVPATPHTLYKKQCANCGEGRAYKNISKDPALDGFTPKYYDELEKNEEHFIEIEDLLQQFHDPTKTAIMDIKIGTRTFLESEVSNTKKRADLYEKMVAIDNDEPTEEERKCGAITKLRYMQFRERESSTAQLGFRIEAAKRLEGALEKNFKKVRTVEDVTTTFMDFFGTQRSRVRQQLIERLKSMRKAIEHSSFFNSHEVVGSSILIVFDTEKVGCWMIDFAKSSPVPNGRTLNHRTTWIPGNNEDGYLIGIDNLVKILEELPEYGEHPDDQLMVTEEVIARMKNTKS | 0.495 | | 73 | In | 0.98 | In | 0.01 | In |
| >2b6e0702a2d981f02ad6a3010c3f0d6aaed71fd6 |  | |  |  |  |  |  |  |
| MGLIDTLKSFFGNLSGRDEIRRLRRENEELAERERKAIAYIREKTNHLLTTIGTLPLRHEELDDRSLLEVDPIGIVCDSFEQILEHMKEVNAELKLAHDEIQGIFDCSDAAIFVLDTSMNIQASNSQARKIFAYDGNPIGKTCDEIICRTKYPEGCIFTSIIASKRAERRSECGRVGRWFNVHGAPIKNRFGDITHVVLFYTDITEEKRVLDTLREREGMYDLILDNASDLFQSIAIDGSINYVNRAWRTTLGYTDDDLATLSIFDVIHPESVDHCREIFMRLLAGARSGPVSFSFVTKHGRIVPVTGSVSCNFRDGKPYATCGIFHIMSGVGQDNATAGPDKESRAGGQRAG | 0.251 | | 54 | In | 0.877 | In | -0.07 | S |
| >7d81f46cbbf955cd5842a21523c3bd9134d9de46 |  | |  |  |  |  |  |  |
| MLSVSRAATRMTGMVARFSAGGHGDGAGRGGGSGGSIRDAGGAFGKMEAAREDEYFYKKQKAQLQELREHIQEEVKHHEGQLENHKKVLERHQQRISEIEAQERALGKE | 0.707 | | 65 | In | 0.6 | S | 0.93 | In |
| >b5a01057b62add1110009caccbfa0bfdff5e16a2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMHLALFGTSADPPTLAHQAIIQGCADCFDHVAIWASDNPFKQHAASLRDRSQMLAAMVNACQPPLSNAQVYADLSFPRTIQTLTVARDRWPQAKISLVIGSDLLAQIPRWYQAAQWLPSVSLFVVPRPASNDWQTAADWLTQQGTTVAIAPFQGPAIASSTFRESSDWRLLPAAVTAYIHQHQLYSSASAAL | 0.112 | | 50 | In | 0.655 | In | 0.51 | In |
| >45d8f4c643851242cc9ed5c14cd29759c04beebb |  | |  |  |  |  |  |  |
| MSLVINLNDKQTKTSKEGLISVSHPLAAKIGKDVLDQGGNAMDAVIAIQLALNVVEPFASGIGGGGYLLYYEQSTGSITAFDARETAPEHVDKQFYLDDSGEYKSFFDMTTHGKTVAVPAIPKLFDYIHKRYAKLSLEDLINPAIELAIEGHAANWATEKYSRQQHARLTKYHETAQVFTHENQYWREGDWIVQPELGKTFQILREQGFNAFYKGDIAKQLVNVVKACGGTIILEDLANYDIQIKAPISATFKDYDIYSMGPSSSGGITVIQILKLLEHVDLPSMGPRSVDYLHHLIQAMHLAYSDRAQYLADDNFHEVPVQSLIDDDYLKARSTLINSNKANIDIEHGVVSDCISHTDVEENHTETTHFCVIDKEGNIASFTTSIGMIYGSGITIPGYGVLLNTTMDGFDVVDGGINEIAPYKRPLSNMAPTIVMHHGKPILTVGAPGAISIIASVAQTLINVLVFGMDIQQAIDEPRIYSSHPNRIEWEPQFSQSTILALIARGHAMEHKPDAYIGDVHGLQVDLNTRDASGGADDTREGTVIGGDVLSIRKQPLPSPKIYDNDTHRVYFNDMQLPLYAEQVRWMHDKYWVDESVIRIIFPEVSVHIEDLRSYEIAGKNYIDIAWLARKKGYQVTLKDDSLYLTDETYHSVKANTNAYYRYDRDSITREGHHHHHH | 0.487 | | 42 | S | 0.57 | In | -0.65 | S |
| >74b756a5b47e97ea82709c053f0c0d4a2f2e27d7 |  | |  |  |  |  |  |  |
| MATTEFIAAIELGSSKITGVAGRKNSDGSMQILAYAQEDSSTFIRKGVIFNLDKTAQSLTSIINRLEGELKNSIAKVYVGIGGQSLRTVRNVVSRDLEEEAIISEELVNAIGDENVAIPVVDMDILDVAPQEYKVGNNLQANPVGLVGSHIEGRFLNIVARSSVRKNLEHCFQQAKIDIADQLIAPLVTANAVLTESERRSGCALIDFGADTTTISVYKNNILRFLTVLPLGGNSITRDITTLQMEEEEAERLKKTYGDALYEEDESEEPATCKLEDESRTVELGKLNNIIEARAEEIIANVWNQIQISGYEDKLLAGIILTGGAANLKNLEEMLRRRSKIEKIRMAKLPRNTVHAPSNILKKDGSQNTLFGLLFEGNQNCCLIETAPQIPVTPATPRPEPEIHKTVDMFEDDQELKEQARLARLKKEEEEKEARAAAKEAERLRKQKEKEEKERRKREAGPSWIQRKIDSLTKEIFSDDDMK | 0.505 | | 87 | In | 0.919 | In | -0.38 | S |
| >0d0ddbb02cdd3b90dac37675f4c909acb0135e58 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVSLEARVREVKGKREARRLRRRGEVPAVVYGPATEPIPVKIKRSVLEKIFHTISEATPIQLIIKDDQGNTVAEKTVFLKMVQRDKVSETVVHLDFYEPTKGHRMRINVPLKVVGKPVGVEKGGFLEVFHEEIPVETDPDKVPQEIEVDVSSLDLGDVIHARDLKLPEGVKCLLEEEEAVVSVLVPKEVAIEEATEEEEEAAEPEVIKRKEEEEE | 0.518 | | 100 | S | 0.774 | S | -1.97 | S |
| >90bf1d42809663e6c203b7c1256c23ec0c724520 |  | |  |  |  |  |  |  |
| MNNEAANIDSERKRVAALLARATVQELETVWSRQDASPQTENVRGPETGLVMVKGRIGGGGAPFNLGETTVTRATVKLASGTVGHAHVLGTGRKKAWYAAVFDALWQESQTRGFIEAELLSPVEKRLSEEKQRKTKETAATRVDFFTMVRGED | 0.663 | | 42 | S | 0.516 | S | 0.82 | In |
| >009fecef3db73057dec6a535e5004be7b97f1d2c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLHRHGSKQKNFENIAGKVVHDLAGLQLLSNDVQKSAVQSGHQGSNNMRDTSSQGMANKYSVPKKGLPADLSYQLIHNELTLDGNPHLNLASFVNTFTTDQARKLIDENLTKNLADNDEYPQLIELTQRCISMLAQLWHANPDEEPIGCATTGSSEAIMLGGLAMKKRWEHRMKNAGKDASKPNIIMSSACQVALEKFTRYFEVECRLVPVSHRSHHMLDPESLWDYVDENTIGCFVILGTTYTGHLENVEKVADVLSQIEAKHPDWSNTDIPIHADGASGGFIIPFGFEKEHMKAYGMERWGFNHPRVVSMNTSGHKFGLTTPGLGWVLWRDESLLADELRFKLKYLGGVEETFGLNFSRPGFQVVHQYFNFVSLGHSGYRTQFQNSLFVARAFSFELLNSSKLPGCFEIVSSIHESIENDSAPKSVKDYWEHPQAYKPGVPLVAFKLSKKFHEEYPEVPQAILSSLLRGRGWIIPNYPLPKATDGSDEKEVLRVVFRSEMKLDLAQLLIVDIESILTKLIHSYEKVCHHIELASEQTPERKSSFIYEMLLALASPQDDIPTPDEIEKKNKLKETTTRNYRGTC | 0.344 | | 78 | In | 0.598 | In | 0.63 | In |
| >f96e2f8a0f2cfe112a627c937864dd26befbcdeb |  | |  |  |  |  |  |  |
| SDLRAGDSWGMLACLCTVLWHLPAVPALNRTGDPGPGPSIQKTYDLTRYLEHQLRSLAGTYLNYLGPPFNEPDFNPPRLGAETLPRATVDLEVWRSLNDKLRLTQNYEAYSHLLCYLRGLNRQAATAELRRSLAHFCTSLQGLLGSIAGVMAALGYPLPQPLPGTEPTWTPGPAHSDFLQKMDDFWLLKELQTWLWRSAKDFNRLKKKMQPPAAAVTLHLGAHGF | 0.54 | | 21 | S | 0.613 | In | 1.64 | In |
| >e0db81228f86467d8bb4ba4d91435deebe176ec4 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDFIDKNYPDITNGEKFRILVDRLTNNEIKNRVLLHDNNVVAYAFFVDSVYGDRCIGNIGFMDAKYCNEARLSNLISWIELNSDGRSVFLDEIFNGADTVEAVLKSRGYSTLTRIRMTARLDSIPRKQADLPFVNFERKMIQEFSDAEYNAFAGVEDQVLLPRSREMRIKYLADEIGGSETELIKDASFVLMDDKIRAGIISVKYRGSDDPYFSDIFVDPDYRRRGIASAMISTAAQKLMDLGYRSVALIVSENNPAIGLYRKMGFSDSGQRKYTIHYRIRP | 0.102 | | 40 | In | 0.913 | In | 0.56 | In |
| >52dbd01a57971aeb6375642dd39da3912c92b658 |  | |  |  |  |  |  |  |
| MNNNNKAKTLITQLEQEINWVEELNTLLSEEKEILSTSQFNQLETLAEKKQELSTKLEASAKQRVDLIKESNPGDKPHGLLLSDFLKNCATEDGIQINHLNNTLAERLNLCRELNTINGQVIANNMYTRQQIVNALSGNKSDAVSVYTSNGNLET | 0.302 | | 84 | S | 0.743 | S | 0.24 | In |
| >a4eb118ef424d28bb7a58153e56687d794be6c19 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLYKNNSIRYFSDHFSRLQKSMACMELTNEICSNETELENIIHELIKKNGYGADVRIKLMVHRNWGGLYAPESTNGILTVLVKEHIASNQISKEYVVFSDDVRNHYYKGSMYKLLSSGRYVLAGLEMKRRKANDIIITDIDGNVSECLQANLFWIKNNTIYTPGIETGCIDGVMRKQIQQYCAVTNIEFKTGFYNITELEKSDIVFAGNVAGLTPFAQIEKVKFRTEHELFDKLKKHLT | 0.115 | | 46 | In | 0.907 | In | 0.84 | In |
| >161c0b4522489adcadd61938db26df49efa4a866 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKELKIRYYRQLFDPIVTIWAFLSQVLDTDKSCHNTVSKVISYLAGQEVELPSTDTSSYCQARKTSMRKGKIVGSCDKLVTWYKPEKCPKGLSKDEFYALPLTINLREIYYYIVVPGFRTEQVSLITTLLDITTYSTLDIVGLYGKRWDVEIDLRHLKTTLGMDVLRCKTPSMVRKEIYVYLLAYNLLRGLMWSSGTTYRTPPLRLSLQATCHHLNNFIPELLAATSTKRLQIYCNAT | 0.147 | | 30 | In | 0.549 | In | 0.77 | In |
| >0d067c61adadc13ceb366c29c5a2e07671c86e7b |  | |  |  |  |  |  |  |
| MATFKQYTKKGKKYWKVTAYLGVDYLTGKQINVTIRNCNTKKEAQLKLNQKKLDFDNGNLANEHTRLTTFEEVYYMWLDEYKKTVRESTFIATERRMKKHILPTFGKMRLERLTVKIVQKSVNEWYKKNEMGKVLLSYASRVCDYAVGLEIIDSNPFKKITKPSSLKKLEKNTKRKFYTKDELEHFLNTADSIANQAKEESLVLKYYADLDCAIFRLLSFTGIRVGEALALNWNDIDLKKQVVNINKTTAISTNGLTINDPKTPNSIRKISFDNKTAYILKKWKLRQHEALMKKGGFKTQLIFTKIDGTMSRSQDIYQRSKRLAEKANLHSIGCHGFRHTHATLLFESDNVRSKIIQERLGHSSLQITMDTYTHVSDEVTKEATDAFSSYVNF | 0.362 | | 65 | In | 0.959 | In | -0.07 | S |
| >deb0334971144cc6a88a529377af17abe0a46939 |  | |  |  |  |  |  |  |
| MAHHHHHHMSEIATQTFFSIPFYKGYLPFKEAQQAQSYVVLALATDDAPVLNGDDKCAVSSVGSGHVVAKAPSTTPERSVTPEKAASNRQSAVLHPLSSLPLPPRDGSPIKRSRSTTNENSRASPNVLSSSIDSSGIHTAAPATTAVGGGVAFYLFHKRDVQPPPIRFYVSPKKVHRCFSGCERLSCGCERIHFNPDAWRMRLETLPRLPLTVARAGQNIRVASNQIEPTAGYFFALGLKMAKVLPAVVPTMCRFNTACRNGIRCLYIHADTTVTPKQVQTSEITLRTWGQHVMDSALSDNEAGAFFAFLDEQGVRTVGDMQVLGNAAFDSLAARVPPQWAEAFLTLSVLRDLDTKMLLTNALMAFPHIEAPVRLPGFLNTVGDLLSLTASAFMQLQVTPFVMNACSLIRTRYGTDETFTIIDLKKEQPNTFFSNATRIIQNFCRTHAHCSWRKHNPSRLVVTSVLTFVDVNKCHCHLNGDNPEDTHDERIDAPITADIEAMGTPSGSWCQCMRGGVIAVNYELSTPSGSRCSEQNAMGKLASLGVPTWGVREVFVHGMAATEPNPLFPCGVCENMLRRVTKDVLAHYGGDVTLYMFDATTPRKIVFLPIPEISNRDGANFKKFVAEDLRSR | 0.222 | | 42 | In | 0.992 | In | 1.47 | In |
| >8ec319c1f8c487bd1ec50e9a7e97a372ecf47b07 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTDLYTNSNAKRDFIRHGIITSIEDDMDVFIASAFFTESSVIDELVQKGCHIRIVVRLGFPTSPVALEGLLKHEKVEARFFTSNSFHPKFYIFGDKKVLIGSANLTQSALLSNQEVMISLYSDDHRFDELKYLFSDYWEEASVLTKEVIKDYRNIYNKVGKIESLVKKLDNCVINTLGDKNFPNIGRGKKKADKKYIFQDTYRKSYQESVYAFRCIEKIYSTFERKIDENFIPLRLEIDSFFSFVRDRYASTDIWKRQPIGWTENQRINIKKLIDEWLITYWSHFEDKIVPTNYPLIQKTFGSDQSIKSASMEDIADALCVLHSFHDRFRFYKGGLDTLKRAFISSNDESKVKNTFCYLLYGTEDIVVRMSNCIHDFKYELNEFGPANVQELIGWINKENLPVINGRTTKVLRYFGFEVKQLGD | 0.171 | | 46 | In | 0.907 | In | 0.48 | In |
| >e5181155daa80b6eb2386f0ebed9e8c0bdf01f1b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSKYIKVGSGGGEVTWHRAMLDMEPGDYLLLEPGYYVWPRGRLLEDVTIKGLGASPEDTRIRSFFSIGENSSRVVFENLTLEPYGDVNTLDLPEETNSYLILRGCVLTGTGSKTTTISVNGQDTVEMYSCRLLNGTLSFFEKANFRLEMADCLLDYESEKFGTISLEGTGTAIINNSEIRGTVNSFDSSNIELNINNSAIGNLNLGGKSWVNVYACRFLNRDYSLYARGECWLNILESQMPSQLAIEDHCHLLMQNSQLYNFQARGESQSFLSNVQIAAAASLEGKSFMDGSLVTFSGNGDYPYFIFLVDQAVLKGRNLQFDPQNWPVLVDNDARLV | 0.393 | | 16 | In | 0.714 | In | 0.43 | In |
| >2339786de0b1c261f90fec6f2cb3039b3803c8c2 |  | |  |  |  |  |  |  |
| MAHHHHHHMCILAFITRHCERFPFILIGNRDEELARVTGGLTLDTSTGLVWALDRRAGGSWMGIEPRSGRFAILTNCRRSPAAPLTCSATARDEDQCGGSERGEPAQRTGLSTAAAVWRGAAPLSHICAHTTVVPVAALPAVPATAKTAAEDNHCPQHSKQLQTVTLAYDPPTSRGLVIKNFLQTGILPGDTAQTPIGCTRSEDAEAPLDKSAATRAALPAVLRVPPYYAGFNLLSCDDLRRCGVDAVTSEHGRQVSGNTSAAAPEILYTTNRYAAEHRQPVAPGQVHCLQNSYLDNMHGEPITARLGQLFTDALHRVIDPIAAEQPPSSTSGITPAIVTEVATALADECLCDRCNFDLPKMEKTALSAAEAAALHAQLHSNSPLLGFTEKELREYFGNSAVGDGDDVSVRFCDGGAATREAYLQSSIFKVPFRGYGTRMQSMVLVERVAAVPSTLPNVALSASTTTVIHFCQREVSVDVATQRVVAAPWIAYRILQDGSCLRDSAETPTSSCT | 0.292 | | 43 | In | 0.989 | In | 0.43 | In |
| >3352798293ebcd1b4cb3e84d91ed99d1ec63cb6d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDIVGQLQEGMRRFSAQESRVATFILQNLSFTASASIDELAASAGVSPATITRFARSVGCDDIRDLRKQLAQASERRASWLTPDSAALPVAWRDKLSSLGVTLTRQLGHTAEAAVEKCKSRLLSARAVHCFALGAQDVTLAALLQHQLLPSGIAINLCQDAALMRLTASTLNDDHLLLVLATAEANPVLQSATLQARTQGVTIIALTPEQHALGDMASAILPLPADPQQARYALLLLVDLLNDTLIA | 0.151 | | 27 | In | 0.747 | In | -0.26 | S |
| >700cc26195956e87be5592b59e5363fbcf0d2dc3 |  | |  |  |  |  |  |  |
| MSSPSLPDASLRASTLHLPAGPWSTVLDCLCARFPAIDRDTWLARMQRGRVLDAEGRALGPQAAYREGLRVHYFRELPVEAPIPFEARILYRDEHLLVADKPHFLPVMPAGGYVEQTLLARLARSTGNRDLVPLHRIDRHTAGLVLFSTNPGSRGRYQALFRERRIDKCYEAIAPALPQLDFPLLRRTRLVPGEPFFRMREGEGEPNSETRIEVVERNGRWWRYRLYPVTGKKHQLRVHLAALGAGIQNDGFYPELLDAEGSPDDYLRPLKLLARGLCFDDPLSGERRMFESGLRLDWQV | 0.404 | | 74 | S | 0.597 | S | 1.29 | In |
| >a54998fb177d06b9bad272a1b06251f1a4d3ef64 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKGAKIMNKSYIPKYTHKFPTNIPHGDKKYTLTYIRRMISEFVYDMGNLENNPFTFPEVQTLLDGITVGGHKLSDQNQILNIKSSWDYVIKLSNKENLSLNKDTICSIHKIVAKDEALIVGDFRNGNIGIAGTTQYECIEATLLNDLFVNDINIINKITNPLEKAIIINLWLSYCQFFYDGNKRTARLTSNLILINNDIGVLSIPAKHKQEYNTLMLNFYETLEADEVIKFLLEKCITFFDGYNYKSYKELFKNGN | 0.161 | | 41 | In | 0.764 | In | 1.08 | In |
| >da37bbe8875e7176fa0d714907a2eeb1bcadbc54 |  | |  |  |  |  |  |  |
| MRITIILVAPARAENIGAAARAMKTMGFSDLRIVDSQAHLEPATRWVAHGSGDIIDNIKVFPTLAESLHDVDFTVATTARSRAKYHYYATPVELVPLLEEKSSWMSHAALVFGREDSGLTNEELALADVLTGVPMVADYPSLNLGQAVMVYCYQLATLIQQPAKSDATADQHQLQALRERAMTLLTTLAVADDIKLVDWLQQRLGLLEQRDTAMLHRLLHDIEKNITKLEHHHHHH | 0.465 | | 57 | In | 0.643 | S | -1.44 | S |
| >a898a464cadcb61e1ba18d5289d5eee3d9f8555d |  | |  |  |  |  |  |  |
| MPENPQFIIDLGNMDLLQDEEKISLEQQILVSIKTIREYLFDYNLKLAHTPDSFKLEGRNKIEILNYIPKDNAIVLNPYGDTIANEEIIRNTKFFIIGGIVDKGRRLKNATYELSRRYGYDELPQVKISLRNSTVGVPDRINSIIEILLKVIVGYNLEEAIISTQSNADKLEHHHHHH | 0.51 | | 68 | In | 0.686 | S | -0.05 | S |
| >f5df1bcb901cfd24fa7c162a0f95f8b2b033f39b |  | |  |  |  |  |  |  |
| MRKIAFFFFLLVIGGAMSSCSRDTTSIKYSKNGLPILDDRHIVAYVAAREEVGEALLSSFCKPRGCTYEFIRLSTEELLRRVEEEAGNPKADIIIGGAVDAHQMMKQKNLSIPVISQHANRISKTVKDKDGYWYGYEVEKLAIAINKERWNEEIAPLGLSYPLRWKDLLNPVYKGKIVMPDPNVSGTAYTFFQSLIDTLGEEEAKEYVKSLAEQVGEVTVNGYIPAELVASGEYMIGINFMGDQRMLQKQGFPILSNEPEQTGLSVNAISKLKRAPSGIIADLFIDYCLSEEAGHILEKVSFGVPTMFAKNEKEIEGQPVRRTNLNISNSGIIEIWNRQRLSLK | 0.481 | | 53 | In | 0.689 | In | 0.87 | In |
| >537e51d2b01fcc7de1579d1c932be11f077192a2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHYNSITLDMQRIEDYVMETNLILEDVAEKESYVSNEKEDYISRLMHVKKGIENSKTSFLIERYKEYKIKSIESLIYTISEEKKDYLDEVDRYNKLGEKEINKLINKNFLEVTYLSITTYI | 0.116 | | 98 | In | 0.602 | S | -1.36 | S |
| >459c73b79af7e2f1b6be9c5a789fc33d7fe35a0d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKNWQEEFQLVNLTKLLHSDTETSAAISNGQMIKLTHEVAINAEKYRSLPAWDKAAARAFAVGMTVDKAVVAGQSAARLWGYQTLTVEKTVLCLLPERLRSKSSKHWPSGMRYKDRYLSSRDIREVHGIRVTGAFRTFLDIALDDGVVAAVVTIDSARRQNPSLTREKLMHSAESFPRHRGVKAYRQAIELSIPNSDSAQETRARLILREAKLPEIQSVKVQARFDQSHNKYFLVDFLINEWIIVEIDGRSKYDSPELNEVLMAERDREKFFLNQGYAVLRIDPKQLDLNQDGECEFIGILKNTLQKTPPEHLKQAA | 0.312 | | 59 | In | 0.86 | In | 0.67 | In |
| >788263875328ca4c8cd7c42383f6b93cb970d6fd |  | |  |  |  |  |  |  |
| MKIFNTIQSVLFAAFFLKQGNCLASNGSTALMGEVDMQTPFPEWLTEFTNLTQWPGIDPPYIPLDYINLTEVPELDRYYPGQCPKISREQCSFDCYNCIDVDDVTSCFKLSQTFDDGPAPATEALLKKLRQRTTFFVLGINTVNYPDIYEHILERGHLIGTHTWSHEFLPSLSNEEIVAQIEWSIWAMNATGKHFPKYFRPPYGAIDNRVRAIVKQFGLTVVLWDLDTFDWKLITNDDFRTEEEILMDINTWKGKRKGLILEHDGARRTVEVAIKINELIGSDQLTIAECIGDTDYIERYD | 0.536 | | 28 | In | 0.974 | In | -1.24 | S |
| >365645f39dcb8b39dcef2d6e8fb627beb1ef3201 |  | |  |  |  |  |  |  |
| MRTEMLSTRIDHDTKIAFTNVCDEMGLSTSQAIKLFAKAVINHGGIPFELRVPQPNEVTASAIQELVEGKGHKAESVEAMLNELTEGKVKHV | 0.616 | | 97 | S | 0.751 | S | -0.54 | S |
| >7cce5b3c1fea47ba6493b7cdbc4df9be5036a12e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQLFVKDLTVLDFSYLCAKRGMVGESWIVDVVLEGGLDSQNMVLDFAKVKRTIKDTIDRVADHRLLIPTASSNVRWQQQGDRVWMDFHSDVGNIHLACPSQAFALIPAEHVDFEAVNAFLRKALREALPDNVDGIHLTLRTESLSGPFYHYSHGLKKHDGNCQRIAHGHRSPVQIFENGESAPDWDAYWAKRWKDIYLGTEEDVVPVAELELSAQCRIDDNSHIGFRYEAPQGDFQLAMPRAICDIIPHDTTVELLADFMAKTLADKVPGSHFKVIAYEGIGKGAIAAAEIASS | 0.255 | | 76 | In | 0.519 | In | -0.93 | S |
| >43ed87d2c464288652d4c103cfbca99c65c4e705 |  | |  |  |  |  |  |  |
| LQQVRAEERRPKTQPRQRRATRIDSNSQPAMIQSMLVMPDRKEPRLWPQREALKIALQYPEHAGEYFDSLPDDAFTHESYAAVRKAIVAAGGCSDAIRGSTWLDAVRDNVYDMVGKSLVSELAVEHIILDEWGLAAHTDTTLARLMEQRIGNQIAQLKGAMQRMRPSEDMQAYNSLFADLVALEQTRRELLEKIFK | 0.326 | | 46 | S | 0.517 | S | -0.23 | S |
| >2662922c6a00b01f4d3d7b06969f6297edac4057 |  | |  |  |  |  |  |  |
| MAHRSAPFISNKFPPAQSSAPNPSRMFCVSYASTQQSANTPTIHEQQEEIYSSLKKVRTTDDLTSSQLSIDKHVTMIPLGSPHELHREITASGTLIRVSSGLPQKMDMGANEKMKELVPKMRPEATLQSFQPVRQEAPQKKVEIQEPKKEFESWSGRAMEGRVSGGQVRGTNNMRGYWERNIQIEQRQRAEDERRQRPKSYGFPKWRSTDALSASLVASNSIQIPVDSRIPVERLRKMEETEREAIEVKKEIHEEAEMTAGVSNTRKLSKGKSLDSLSMQVDYQPWYDTEKIKSAVSRESIANIATSREFFETASTRDWRSGANSRRDSMCSLSIAPPLPPKSDAMQLRQATVNHASRPPTNYHQNGGYGQQYEPNLSSVPISSGAQNINMLTISSGYDDGRQMVQKQQQPQTSINRLVQQDSPQTADPIEQQEVLLMLYLKQNLDIVRGLGIHIPHDLLAEMDDLQILPVELRICDEEPQRGQMFSPVNKNGRYQRKPQPNMAPNRQVMGQMMGQKYGSRKDIPISTRSRQNSEMSNSNVDLSYHHHQPHSHMTTNSSYGYH | 0.305 | | 70 | In | 0.985 | In | 2.1 | In |
| >cfdd939b6ba769effbfc942aec11e0e13f0e0e70 |  | |  |  |  |  |  |  |
| MKPFLLGLLKCKRCSFMTKLILECEKAESNDVDTDDVKIFNKHMFTENGGERLKSLVNSLRDFHGRELSEQDISSFVENPGDDEKIKEFLFGIDVVEGSLRCDMCGLIYPIKGSIVETVDTVESK | 0.678 | | 99 | S | 0.567 | S | -0.92 | S |
| >ff99229100a00e950da227e1d0b8f5baf18e4fff |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKNRLLFLEGSSLTSRETLTVLLKEGYKVDVLSPDKFSIATFSRLTHRIPTVDVNRFPLDYLKQVNQLLHQKNYAAILPTHEEGWLLANGGNFLPTRLPVALADKEQIEKLAGKIAFAEISDQLNLPIPKWERVENLESVSLPYPYWLKADYGTAGRSVYKITSKEDLAEAASRLTASDEKWMVQQDIVGDYGQVQAVFHHGQLLAVHSSVKVGSGAGGSAAARLSIESEKTREHVEKLGQFLQWHGALTLDFIRTDGHFYYIECNPRMVEPANAYKAGVNFPKIMIELANGCYSKSDVSVGQAGVGTHSLMALLIGTAERTKSRKKIVRTMRKWLFNSDSEEVLTPIWKDPLSFIPLAIIIGRLLINPRSVTKLVDKTVKHYSVEPTTLKNI | 0.149 | | 56 | In | 0.744 | In | 1.23 | In |
| >798e34d73022745b1f4b827430a824e3246970c1 |  | |  |  |  |  |  |  |
| MSLARRQAIAQEWREIRRRGGVTHVMNERSDAEPEAYVLNRGMYDDRRERVSAGVPAVLPPMAESLPRNRLGLARWLVADNNPLTSRVTVNRFWQEVFGTGIVRTSEDFGAQGDQPSHPALLNWLADEFKKSGWDTKQFFQMLVTSATYRQSSHATEDKLEQDLDNRLLSRGPRFRMDAEMIRDYALASSGLLVRTIGGPSVKPYQPDGVWSTVAMPQSNTRVYQQDTGSKLYRRSLYTFWKRSAPPASMEIFNAPTREHSTVRRERTNTPLQALVTMNDAQFIEASRHLAERAMREAGEEFNQRLDYVTTRLLARLFEDNERALVRQTHQELLEMYRTDIDGATQLLNVGDSVSDPALPVPDSAAWTMLVSQLMNLDEALNKEGHHHHHH | 0.482 | | 32 | In | 0.953 | In | 0.57 | In |
| >d55279170e854b409e5f049437ab60e92fe8280c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVTQNETYTSTVVPYSPDILDDLPIDDQLAVEFFATARCASFKQAARGLNVPVVGLRKRLEKLEEHIGAPVFVYKHNKLALTRTGERVSHYLCQLFGPDGLGKSGEKEVPRLTIAITEPVLNDIVNRDLVAYVRDHAEMQLEIHSECTTQMLSECEVDVGIALVSPDDKGALDRHPTYRFERLGRIGHALFISSRYSRSVTLPVESLDLHNFMLVVPWDEEILAGSRKWASIMAEHQGGTTRVKSYNLSRGLVVGGACIGVLPDYSRKLERNILPVPGFLDDLEEKDVYLVIKTKLVRNPQVLEIRRLIKKSFFDKKDWLVR | 0.189 | | 78 | In | 0.724 | In | 0.28 | In |
| >f73cf1e6a53ee0e30320ecb3b2ad3b8bd03b41ff |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVPRLDFASSPSPGSALMTQACTRTHATGLAWTCTMTETDFLSLAEQYWHGQVDLLETDHPVTGTYPGAQELAPGLLYFKGVAAISVIDTGAGLIMLDAGTRSDMDRVYETVRKWRPHTPLVAAVFSQHHLDHIWATRRFDEEAAQQGWAAPVVYAHTLLPQHLDRYRKTAGWIDAVKARQFSRQLGPAKGPTDFRYPDVTFDRTLTLKMGDLTFELRHARGETDDHVWVWVPERRWLFPGDLFIWAVPNAGNPQKVQRYCEEWATALREMSGCQPEVMICGHGMPIFGAARVKEALLDTAEYLESIERQTLALMNRGLPLDDVIHRVSPPAHLAGKPYLQPIYDHPQFLVRNVWRRYGGWWDGEPDNLLPAPRVQQAREWITLSGGVTRVLERVAELEAEGDLRMACHLVELTILAQPGSEAAHRVRAKIYAARAGNEAATMTQGIFNHVARSSHERRRDLLIGEPPNAASAKEMS | 0.265 | | 27 | In | 0.699 | In | -0.09 | S |
| >f06085bcbbc25271f1b7551b327c5b4c2297d519 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKNIFTPEVTTEVIARINTLSPESKAGWGKMSINQMLAHCNVAYELVYEDKHPKPNVLMKFIIKLVAKDLVVNEKPYKKGAMTSPAFLIKDERNFEKEKIRLIDHIIKTQQLGESYFDNKESHSFGVLTKGEWNNMFYKHLDHHLNQFGA | 0.217 | | 99 | In | 0.684 | S | 1.09 | In |
| >853ea660676f7cc463d04a2d97fbaff7625d31b0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKIAVLAFPGVQMLDLAGPIDVFHEGARQAGEPGAYVFEIVSAVPGVLRASNGMTITPDTTLETSSPDIDTLLIAGSPLVSQVEKDSAIGNWLTRYARTVRRLGSVCSGAMLLAHAGLLDGRNATTHWNSTERLSRQFPQVRVQPDQIYVKDGNLYTSAGVTAGLDLALAMVEEDFGRTVALKVAREFVMFLKRPGGQSQFSAHLAAQGAEKSAIRDVQNWVLENLAERLSVESLAERAGMSTRNFARIFKQECQVTPADFVEGARIDAARRQLEETRNPLKRVAAVTGFNDPNSLRRAFLRRLGVSPADYRRRFRSTA | 0.213 | | 24 | In | 0.796 | In | 1.21 | In |
| >e5b086e8af215a42add11652ca64e80a00f4bb85 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLSRHQRGWGVEQWAAYLKDRDIPVLSATRDVFQTLKSQGKDAPEFSPREMVDFVHDDPYLALKLLIEAERHRSRRLGKETTTQLGTILQLGSDELYSLIAGSPVVNVDHSGWKAAVSTAVMASSIARAWSNLRADASPEEISLATLLSETGELLLWHFAPELPTEAIAEFESGRASRTGLAQLNTAGFTFRQLTLVLSDVWQLPQMISQLIRGVDRPRTHIAQIAIDCARHLTQNPDNPALPSDIGNIAQYIPGVSKEKLVSVLPISDEQRAHVLAGLQT | 0.161 | | 33 | In | 0.663 | In | 0.12 | In |
| >b73e676be1f0c86c1766597bb0e52b64de755248 |  | |  |  |  |  |  |  |
| PKADWLKIVVTHRAKLKIRAAINEERRQEIEKGRSIWEKMLSGSKKLFTENDAIRAIRQHGIKTPADLFNALAKQQISSEEVLERISHPHRP | 0.717 | | 88 | In | 0.573 | In | -0.39 | S |
| >0c64192f08cb086fbee232c91e65f74d54ad33b9 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLPYFQAHPGRSMMEAAVDLGSTPSQIKEDLNRLFCCGPGTFPDELVDLDAQLQSVTIFDSQGMDAPLRLTRTEAGALLLSLEYLEQFPELVHMETVKSAAKKLREIMGPESSAVFDSQRFEDTPASEPVIDVIRDSMAQRVQLQFDYYSRAKDTTTKRIVSATRLFSADGSTYLVGWDHEAQSHRTFLTTQIRNVWLSTQPAQPHVSSLRFDDSDPFGLQTAEQHVEIEINESAQWLTTVFPLEDVQPAHNGWIQAIMPVVSYSWLIDTLTRNADRMRLRDVRSPLAISMRESAKLGLTAYASEHAEGNQFEGKESLE | 0.205 | | 44 | In | 0.914 | In | -1.03 | S |
| >7b4c457c8665bd423317559e19bfac8d450709d1 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQTLAQLKAGQLQGITRLQLVENLTEFPREIFDLADTLEILDLSNNQLSSLPEDLHRLTHLKILFASNNRFETLPEVLGQCPKLEMIGFKANQIRTVPAASLPAQTRWLILTDNQITTLPERMGQLQRLQKLALAGNRLTALPASMAHCRNLELIRLSANSLEKLPSWLLRLPKLTWLAFAGNPFSHTLVDPHADVASVPNVTLADIELGKKLGEGASGIIYQGRWLNPAMVAATGSEHIAVKLFKGEVTSDGYPADELDCCLTTGEHPNLIKVLAHISAAAQLGLVMALIPAGFANLGLPPSLDTCTRDTFKPGTQFSLEQVATIAHQLADTLAHMHAKQVSHGDVYAHNMMVNKQMNLLFGDFGAASNLGNLSTLEQLAMEAIEVRALGCLIEDLLAYVDESVNAEHYAQLSAIKAACMQSDVALRPRFIEVKQAIASLLISTSA | 0.199 | | 55 | In | 0.564 | S | -0.05 | S |
| >6abb7ff8436fcf49e27144bd33204a9f43d37b1c |  | |  |  |  |  |  |  |
| MEKYVALLRAVNVAGKNKVNMKNLKAALQEEGFQNVTTYIQSGNLVLSSNLQTETEVAAKITEVILASFNLSIDVFVFSEQNYKTIIKNNPFPPEIIGEEERWMIAFYNENIDIPKQKNTQAEVIAIGR | 0.551 | | 72 | In | 0.638 | S | 0.41 | In |
| >3b1f8eb3bfc8865655c370efb3815e2a1f5e2e91 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEKKSGDAGLCCSKTVTLPRLNRLSPSLESTALKIMEESGELAQAIGKFRGLNGERLRVKETEAMQMVAQELIDVAQTAVTMMFVLEEQYGIDIEKILEEHVCKLKQKGYCD | 0.104 | | 98 | S | 0.746 | S | -0.82 | S |
| >3c50c39cac544a577950c52e356b4677ff5beec8 |  | |  |  |  |  |  |  |
| QKKWFAHTLNQEEESVTSHVVDRRPRVIIAGFGRFGQIVGRLMYANKIKVTVLESDASQIHLLRKYGYKVFYGDATQIDLLRAAGADKAEALVICTDSPDEVMAIVDICRTHFPNLKLLARARSRVEAYQLMSHGVQNYSRETFLGALDLGRQTLVELGMHPYQAKRAEAHFRKLDNAMLKDLLPQHNEDKKLAQRAKEARKELEEIFGREMESDHQSPNHWK | 0.601 | | 70 | In | 0.515 | S | 0.36 | In |
| >8a94008898cb6e0b072794229e5bc66af1b48d7b |  | |  |  |  |  |  |  |
| MKWSEISIHTTEEAVEAVSHILHEAGASGVAIEDPAELTKEREQQYGEIYALNPDEYPAEGVLIKAYFPQTDSLHETIAGVKSSIDVLPSYDIEIGTGNITVNEVNEEDWATAWKKYYHPVQISDTFTIVPTWEEYTPSSPEEKIIELDPGMAFGTGTHPTTTMCIRALEKTVQPGDTIIDVGTGSGVLSIAAAKLGASSVQAYDLDPVAVESAEMNVRLNKTDDVVSVGQNSLLEGIEGPVDLIVANLLAEIILLFPEDAARVVKSGGLFITSGIIAAKEKVISEALEKAGFTIEEVLRMEDWVAIIARNA | 0.693 | | 94 | S | 0.661 | S | -2.32 | S |
| >bdef388f5ab8587071ae847b93067633f3fd3bed |  | |  |  |  |  |  |  |
| MHFRFTLTVIAFLTTQSDACMKMISPDDVSISTPAPPLPCTQCDTKSVVENPTNPEMQVPTTWKETTPTAEGCTQYIAEFQAPAGQTCISLSVYITQADDPENRIYKVNSGTYAALTFTCKNDMMWGFDQLTV | 0.431 | | 97 | In | 0.732 | In | -0.9 | S |
| >3c853410dad78475dd02d50a4987b20e5446a204 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTPDLSRQALQTIAAYLPIFGAPNFHFTDGASPVCPMADGSLHLLGYRYEEQVLNLVHTADQLGWIYQDEHFQWSEWLQTAQAQALRNDPAALAQATPRQLAQLLTVFARQERFCEGTQLAFWESGLLLGLLRRADVLARQGETSPLR | 0.113 | | 36 | In | 0.512 | S | -0.82 | S |
| >629941bb9972e71ca1d8e1b2c6734cb72a9c606b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNCRSEVLEVSVEGRQVEEAMLAVLHTVLLHRSTGKFHYKKEGTYSIGTVGTQDVDCDFIDFTYVRVSSEELDRALRKVVGEFKDALRNSGGDGLGQMSLEFYQKKKSRWPFSDECIPWEVWTVKVHVVALATEQERQICREKVGEKLCEKIINIVEVMNRHEYLPKMPTQSEVDNVFDTGLRDVQPYLYKISFQITDALGTSVTTTMRRLIKDTLAL | 0.216 | | 85 | S | 0.607 | S | -0.56 | S |
| >4e4ad15d9b9e6f39f0375471c7888406f8186c4f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSSLPSFDTENEPKIARSVEKFFKYYKVMELLRRCGLRKSKGIPLWSVLSYIFSNVFPDRSMYMQQKSGKCTAGFSKNTYYRFMQNQHINWLRFTILLAEKIINEHLKDLTSDQRADCFVFDDLLYSRTGYKKTERAAKVFDHVSMTYKKGFRMMTMGWTDGSSFVPIASSLLLIN | 0.111 | | 18 | In | 0.838 | In | 0.73 | In |
| >562856098e81dcccadd1cf6cd9f21402388013e0 |  | |  |  |  |  |  |  |
| MAKEKTLDDLFHDTLKDIYYAERKILKALPKMARAAQAPELKAAFEKHKEQTETHVERLQQVFEMIGKRAQGKTCEAIEGIVAEGEEIMDEFKGTAALDAGLISAAQAVEHYEISRYGTLKTWAKTIGLKDAVSLLDATLKEEVVTDEDLTKLAMAQVNKKAA | 0.694 | | 100 | S | 0.765 | S | -2.18 | S |
| >640c57df4083bb3ae4112b5d0d7f5164dcb2cdfe |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGDSAGLPPIYADKPIELAPAKIITSFPVNTFLENLASAPDGTIFVTNHEVGEIVSITPDGNQQIHATVEGKVSGLAFTSNGDLVATGWNADSIPVVSLVKSDGTVETLLTLPDAIFLNGITPLSDTQYLTADSYRGAIWLIDVVQPSGSIWLEHPMLARSNSESVFPAANGLKRFGNFLYVSNTEKMLLLRIPVDSTDKPGEPEIFVEQTNIDDFAFDVEGNLYGATHIYNSVVRIAPDRSTTIIAQAEQGVIGSTAVAFGQTEGDCTAIYVVTNGGMFLPPPTGVVPANVVRLEVGKPGYPLG | 0.129 | | 78 | In | 0.546 | S | 0.01 | In |
| >29982cc6c0d08656fdd0e375727985d189d73d12 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKQHHMLIIGAGRMAEAIFSGILKREENPFQITVSNDKDVARLEKLKKTYPVKTTTDWTAVVETADVILLACPPAAHENVLKKLSPICNGQLVITVAAGIGPTDLETHLPKGTPTAWIMPNTAASVGESMSIYCFGQHVKERDKQLISFILDAIGMSEQLTESQIHHLTAITGSAPAFLYFLAEALEQSAQSYGVAPEKARELVIGMITGSAKMLEEYKDPTQLREQVTTPGGATAAGLQSLLHDDFQGALQRAVQATNGRAQERAN | 0.18 | | 84 | In | 0.675 | In | -0.08 | S |
| >d6659bd83fc65159bd65dea3566ca3cd1cd7dbdf |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKSNHTHIRKTHMEQLYHTTELIGIKDKNIKILFILKHQTHLEIRAKLDYDSPGCPHCQGKCIKYDFQKSSKIPILDCQGFPTLLLLKKRRFQCKSCQKVTVAETALVKKNCQISLPIWEKVTQLHTENMTNIAIARRLHISVSVVQRKLAQFQFEHDFTKLPKVLSWDEFSRNKGKLAFIAQNFETRSIVTILDNNRQTTIKNYFYKYPRAVRETVEVVTVDMSGSYIPITKKLFPRAKIVLDRFHIIQHLSRAMMTTRIDIMKTFDTRSLPYRSMKNHWRILQKDSRKLSLNRFFSRTFGQTVTPREVVQKTLNFSEELKFYYELYQILLFHFQEMNSKYFFELLEDNLDLVNPAFKTVFKTFLKYKTYITNAMELPYSNAKLEATNKLIKDIKRQAFGFRNFTNFKTKIYIALNIKNERTNFVLSRC | 0.312 | | 54 | In | 0.966 | In | -0.79 | S |
| >419d29de01d3548812a8960f9f22bd5c83cb05ea |  | |  |  |  |  |  |  |
| MSIREKIGKRIHEARKAKGLTRQALADLTDDIKPSRINNWEHGTRMPGPEEITQLAQALEVSPSFLMGLSDERDGDFGINSRVGSLIPLLDHKQAGDPKYHIQRVKEEPYAEKITFLPVNQDIANQLDEYAFALKMLDDSMSPELRINDIQIVDPSISPNPGDFVVVKISGKDDVIICQYKKISYTSSEFELLTLNDNWPNITFNESEQVEIVGTVIQNIRTYRR | 0.449 | | 77 | S | 0.755 | S | -0.01 | S |
| >9fcd11135ca828ee535d2e14ca31ffa83327d32f |  | |  |  |  |  |  |  |
| MDALGKLYTSTAIVTVNVEGKLNGITVAWVTRVSWQPPMVAVSIGKTRYTRELMDRTDSFAVCILGKDAKEIAEYFGTVSGRNTDKFKKYPYTMSEGNLPIPEGTIAYIECDKTGQFEAGDHIVYIGTVRRQKVLKDEPPLIFGEHELL | 0.571 | | 62 | In | 0.766 | S | 0.31 | In |
| >4c69450ae0b8aaf686c1b617a05c9d6d473af592 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHEDKKTCSNSQKKAKVKSVSESTCDDEEYEKLLEKKLEGILERMDGVGEVSVMITLSDDGTRIVDKDTKETSESIEKTTVIYDDEDASVPYVTSTDKPTVSGVLVVAQGGGSPQVNNDISNAVSALFDVPMHKIKIAKMISREE | 0.145 | | 100 | S | 0.661 | S | -1.12 | S |
| >a1e0c97ccdbbd4ff3ee9afd19acaac8b688ac806 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMINFYQPSRINFGQGTLSELPRIIGKYGKKCLLVTTPNVEPLDKLYKRVTLNLIEKGIEVVHFDRVEPNPTVELVNEGFELAKKESVDVVLAVGGGSSIDTAKVLALTFGLEKIDWDYMFSTYTNPFKIYDKVSEKELPLIAVSTTSGTGSQVTQAAVISRGSEKNTIFHQNCFSKECIVDPELMLTLPERITASTAFDAFTHAFESYINPNANDFTEIMSEKSMELVINYLPKVMEDKNNIEYRTKLAVADTLGGSSLANAGAAAPHPLSEIIGGVTHIPHGEALAIVFPKFAEKFYKDNIEKFAKVARMLNQELEKVEDDEAAKTLGNEIESFLKRVGLKTKMSEFNVTKEQLEQITSCPVLGFLPFGKKEDLVEILEKSY | 0.359 | | 95 | S | 0.637 | In | -0.1 | S |
| >29a0e452783113b6cb428d322dda437a95dc5f83 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKRVAAVIEYDGSNFFGYQGQPDVRTVQGVIEDALERIFKQRIYTQAAGRTDTGVHANGQLIAFNCPNDRMTTEDIRNAMNANLPDDVYVKEVFEVPVNFHPRFDVTKRIYHYFILTSRQKNVFLRKYVWWFPYELDLDAMRKAVKYLEGTHDFTSFKTGSDERDPVRTIYRIRILRLKNDLVLIRVEGRSFLRRMVRNIVAALVKVGLKQWEPEKMKEVLEARDRSAAAGTAPAHGLYFYKVLF | 0.186 | | 52 | In | 0.855 | In | 0.6 | In |
| >3f153aae22c53afb1ee33c578389d3b3778fc2c4 |  | |  |  |  |  |  |  |
| MFVLFIFIGLIDIPEVSTEENTRKALIRKILLFLPKKNTCQSLDRKRFEENRSVKPKTRHLVFTSIKLQKKLIVCLLFFLLTTIVGKANVLNNPNRDSVYTYIEANPGVCFSDIAKNTGLNRRTVQYHIQVLETQYKIEVYKEGGRIRCFQNSTYSEKEKKILVTSQNITNKRIISEILNGKCNTNVALAREIGISKGTVSWYMKNLKEIGFIKETKRGKNIIYKINISYKHLIERYKLEHHHHHH | 0.423 | | 56 | In | 0.579 | In | -0.46 | S |
| >5a85b5c19a73fb4a5682d70c0caffcfe0b0d36af |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIQIRRFRPADAAEVAQVVATTLNISNSQDYSSAYLEATIKRMSPQFFLDKAEQTHFYIVHDGNRIVGTGAIGSYWGSTTEYSLFDIFVLPTYQKRGIGELIIHTLEHDVYFRQAERVEIPASITAVNFYRHMGYTFKKGHETVDEEQLYRLEKFPHQQTASSSSSQQQEGAS | 0.098 | | 39 | In | 0.656 | In | -0.23 | S |
| >c3755245e2b5a84c8b7351b6333c86f8f5492476 |  | |  |  |  |  |  |  |
| MTKTWPPRTVIRKSGGLRGMRTLESALHRGGLGPVAGVDEVGRGACAGPLVVAACVLGPGRIASLAALDDSKKLSEQAREKLFPLICRYAVAYHVVFIPSAEVDRRGVHVANIEGMRRAVAGLAVRPGYVLSDGFRVPGLPMPSLPVIGGDAAAACIAAASVLAKVSRDRVMVALDADHPGYGFAEHKGYSTPAHSRALARLGPCPQHRYSFINVRRVASGSNTAEVADGQPDPRDGTAQTGEGRWSKSSHPATMRATGRAQGT | 0.565 | | 64 | In | 0.979 | In | 1.87 | In |
| >c6e9c1403120b80e537758c35c2f44247b3fac5b |  | |  |  |  |  |  |  |
| MSDIKSHTTPTASDVPVVNELALKQINSQIANQLNTGVLVIDADFNIVIWNRFLQVHTDKVPGSIIGQSIFSAFPELPQRWLSRKLSSVLQLNTPSFCSWQQRHHLFELPHTRPITTDSEFMAQNCTFLPIETDVNGKHICILIEDVTDACHYQMQLQKTLAEIAQISRIDGLTQVYNRRHWQDSLEQEYAKARRHDKKLSLIMLDLDHFKLLNDNYGHQGGDMVLIEVSALISTLLRVEDTFGRYGGEEFAIILPETDSAGAIELAQRICRIIATTPFTYNDQVIKVTVSLGVAQLSSKESNYEELITQADSALYQAKSQGRNQVCNAAELVS | 0.304 | | 34 | In | 0.66 | In | -0.48 | S |
| >a8527d81263a874eeaa13ec8910049ad34c9fa7c |  | |  |  |  |  |  |  |
| MAHHHHHHMRKNYIKKGDNKYEQNNHGVNNISEKKRNSHVNNTIGIENEEKSNINDKVLVIEKNNICRRKSYSDISERTKNENNEISIIRTRRRTIDNTPRENIYLTSKICDKNELLTKFPNERNISKDKCFLKKMNNINNNNNKKEVKINNKRKNITKSYVNNNCKLNHHHHNNNNIKKNNEYKCTHKKEKYIFNTCEINSIKVNNNIYICQFKDKLNKVHKHFFPIYKYGDASTAKNRAHMLQLHVCSCIYCQNGILCNFVEYYML | 0.244 | | 84 | In | 0.973 | In | 0.45 | In |
| >cf5ebc1ea863bdef3f5032e4bcf7987da2ca2621 |  | |  |  |  |  |  |  |
| MLREHVDVLYGQLYARIEQADYGINDNLNYKVDTILTPHLNDLGTALDAHDAHMKIFAWENYRHKGESLSAAKQRFFMSLPPATGSTRLLQEGCAQLMTEFDQLCRDNNLPYWLDFGSLLGAVRHHGFIPWDDDTDLGMMREDIDRLQGIVQHDSRYRLSLVYDAIAFCRQIRFMSSDTSNPCFVDIFIYDYTDSTAIEVYDRRQHIRTELLDALRQSQFRAWHDLVYLSETSDGAAEIQQVFSRYQREMEESGIVVSKENASGIMYGIDNVDNSSVRLYKLDDMFPTTCLTFEDHEYQAPHTPMTVLTRNYGDIYSLPRDINSHFIHVDPALLQQDNVQESIQDSLSEIPISKNEELEHHHHHH | 0.329 | | 22 | In | 0.897 | In | -1.95 | S |
| >6b533d9b4dc8090a103f37eb8dda2df7a983d17e |  | |  |  |  |  |  |  |
| MAGRKLALKTIDWVSFVEIMPQNQKAIGNALKSWNETFHTRLASLSEKPPAIDWAYYRANVDKPGLVDDFKNKYNALKIPVPEDKYTALVDAEEKEDVKNCAQFVTGSQARVREYEKQLEKIKNMIPFDQMTIDDLNEVFPETKLDKRKYPYWPHQPIENL | 0.483 | | 96 | S | 0.629 | S | 0.09 | In |
| >0e1c19de55e2d5345b38727124cf11c4d426303f |  | |  |  |  |  |  |  |
| MSNILMINKNDLELISDKVESSFGLFKNKNIFITGGTGFFGKWLLEAILYLNLKRNLNITVTLLSRDPERFKNNYPHLCSSDNISFIKGDVRDFPFPNEYFNYIIHAATEASSTLNKENPSLMRSTIMDGAKHICNFANTVKCERLLYTSSGAAYGPQPPNMKAMSEDFIINPNFNVNDAYSSAKLESEDFFKNNLKCQIIVARCFAFSGPYLPLDGSYAFGNFIRDALDGKNISLNGDGTAVRSYLYAADLVIWLMKALVIGQDRTIYNIGSPDPITTLKLAEKICDASGNNSSVNVLNKSSDSGNIYIPCTLKSQSDLDVEVYTSIDESILKTLKFYR | 0.46 | | 38 | In | 0.834 | In | 1.72 | In |
| >452e27081eac01fb9bde3a3b51e38c35f6b65a87 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSLTSWFLVSSGGTRHRLPREMIFVGRDDCELMLQSRSVDKQHAVINYDASMDEHLVKDLGSLNGTFVNDVRIPEQTYITLKLEDKLRFGYDTNLFTVVRGEMRVPEEALKHEKFTIQLQLSQKSSESELPKSASAKGTDSKVEAAAEVQPRATEALKSEEKPMDVSAMPRGTPLYGQPSWWGDAEEDEQRAFKANGKPEGKSQEAGASGKNTSVAVASNSYWASIYSLNKSHSTL | 0.465 | | 87 | In | 0.7 | S | 0.66 | In |
| >4acf054cde2cf51ba0c692e97561d281ab5dac7a |  | |  |  |  |  |  |  |
| STALRPYHDVLSQWQRHYNADRNRWHSAWRQANSNNPQIETRTGRALKATADLLEDATQPGRVALELRSVPLPQFPDQAFRLSHLQHMTIDAAGLMELPDTMQQFAGLETLTLARNPLRALPASIASLNRLRELSIRACPELTELPEPLASTDASGEHQGLVNLQSLRLEWTGIRSLPASIANLQNLKSLKIRNSPLSALGPAIHHLPKLEELDLRGCTALRNYPPIFGGRAPLKRLILKDCSNLLTLPLDIHRLTQLEKLDLRGCVNLSRLPSLIAQLPANCIILVPPHLQAQLDQHRPVARPAEPGRTGPTTPALSPSAAGDRAGPSSSATASELLLTAALERIEDTAQAMLSTVIDEERNPFLEGAPSYLPGKRPTDVTTFGQVPALRDMLAESRDLEFLQRVSDMAGPSPRIEDPSEEGLARHYTNVSNWKAQKSAHLGIVDHLGQFVYHEGSPLDVATLAKAVQMWKTRELIVHAHPQDRARFPELAVHIPEQVSDDSDSEQQTSPEPSGHQ | 0.502 | | 47 | S | 0.569 | S | 0.82 | In |
| >aa6c4867f28e9e552170e9b7404ca51ab2c60d97 |  | |  |  |  |  |  |  |
| MKYDVIVVGAGPVGSTAARYAAMNGAKVLLLEEHASIGSPVGCTGLLSTRAVEECDLKPTDEFVFNSVRGAFVHAPDGQCLPVDGKHTRAYVVSRKNFDRALAVMAVEEGVELSLKTRAIGFEKENSETGTGTTGEGGKKETGSPVKLRIVKNGKPETVSASVVIGADGVKSRIASYAGLGRPARVLPGIQVEAPYASEDSDFVELFPGSSAPGFFAWTVPLDEKISRIGLAIDPELAFRNGYGENSPLYYLEKLLRSNPCIKTRYSGGMLDFVVGGIPVGPQDKTYTGGVLLAGDAAGQAKPTSGGGVYTGAFAAKIAGRVAAEAALENDTSANRLSEYDRLWRKGLAKELEIGMKIHDYMGKLEDKQLNELIGSLNTPSILDTITEYGDMDHPSILMRKLMFSGNSLRLMKAFGTFIKTLF | 0.329 | | 77 | In | 0.585 | S | 1.39 | In |
| >a691088f95e1ef482bb8e2debf4d9b59d95f4acc |  | |  |  |  |  |  |  |
| MSCVDSVHSSRDHSVQLSLEKTASSNGDENSEADPDQSSGAVNRSRWTENAARCYKCKDLVPHKLLFVCRHEKCAGVFKGNKKYASPFDFYLHEKVFCSACIFTGSHKNHSDQAEGAYKLAIKSASTGEDMGLIYQTLAFLDIDESTDFMITNDFGIPHLPVADVASYLDNANSCTEFVKRKKMLVDLKNTVDNCRTESDVYVKKLAGLSLNCFQDILAKFKGSNKDSEPSSKKEEKKTSHKDLEKRASDVTLPPAAASPVPDIPKVDSTSISIITTVKVENLKQNDSAINMLCRSLSLRFDQIRDELTIEQALQAVSDMLHESVGSLEEKMAAASRFKERHNVALYYPPQ | 0.672 | | 97 | In | 0.981 | In | 0.59 | In |
| >e1a04a85f793a0afab7bec1d4eaf6a0850dd7f1e |  | |  |  |  |  |  |  |
| MDDKLIGSVISTETKDGNVYQGKLTTYDTNNGNLTMANVIKNGLPLHRCFTLSSSDISRLKVIRGATQSTQKSQPLPVQNSSNSVNKQRPLKKSAESTVSSTSTASSSASSVPDSSRNRSVAVSPQKSAKGRSPKKFATNVEKLFEHHSTPSKLTLAKKQSRQSPMHNGFSHTAEEISATPHFQSFDRQVPNPKVLSTIASNGGRCSKKQGPSGNPVLDALNHYKGIGGRNKNDLADPIDFDLDSDFDFAENLKLFEKDENDDQYYETVEKFKCSQNFAHYENIIDDENRVTSWTNLKARSELVKTGTTPQTSEKNNFRVTAVSFEKSIIGDPIPAISLNEKKEFLNECRVSLGEAVYDTIVADRIFQWVSEVQNSYGDAHGTVVLLASSANSVRSIRRLLTHFDKRRYNCHLFGKYPGEIFDHVNVVTDVKMLPREVPIICILSPVVNDDVECWLRAQSNGASSHYVCIENVPSVLEPSRCHLLQFGCATNGLRHAERKVQTINRGGITFEHLCQGKMHEETSSILVDSAIADLGSPSNWFDNTSSKFISTAFSTTFLVRLSQSN | 0.491 | | 75 | In | 0.991 | In | 2.08 | In |
| >253f220a82872a48b7ab7fdcecc2f543588377ab |  | |  |  |  |  |  |  |
| MAHHHHHHMSLQFYDGGSFADCPFIQYPHGMGKQRAPAMVLAAAAAVTQETTSTSFPMAATVRRVPGAAGAAQVSRSGPLASAYSSLQPSSSEALTVVPHATSALRYGTSALATTTSSSTTGETAEETTARTAQMLQETLAAARQTTEVFDSHSLAVQSRLRSASNKSNSQALALTITAAGGSSTGVDGATRDPGPIVRSPTTEKKSLFTDALLLRSGGRSSNHNNKGQQAGDGGSASVDLAASTSASSMMLAAVSVHSAGRGGAAVVSANNRKVVVPFCVSSWQNRKKLIVPVEQRLAQQQDDRLDPGSGIGDAVMDLAVAMQQASKEVAAELAEKERAKAEEEERRQAALEAAEAEKARQLLEQKAAELAAHAQRRETREQRMVRIRLERELREQEKLAKQQQRLRERAATRLNITVEDLEADEQLLRSVEEASVYAKSGSGGMASADPTGAPSSKEKQESFGGSGRQVPGDNGDDDGDGTVGGSRKPAVRGGVFANAVISNEGIQREMQALAEVEQQQHHHHDGIRLREDDEASAADDDDDDGGSFQLNKFVKKKQRL | 0.502 | | 52 | In | 0.98 | In | 0.69 | In |
| >6ca74af0217035e9820f4e5181c0e59060714d6a |  | |  |  |  |  |  |  |
| MVLTLSDLEKGYDKNLNQLSLSFLNLRDNDIPLLCEFLQNHPAITSLDLSHNDITANGVKLFVNKTSVSSLNISHNNIGPEGAQWLSEDNHITTLDVSFNEIGDEGVKALAANAKLITLYALYNKITKVGAGYLAQSNLKKIDLCFNSLEDEGVIALASNINIKELIASACDVSDIGAIELAKNNQLTLLILGKNAITDKSTLHFANNTSLSTLHLGSNQITAAGKKILETNTRITDLDLIGNPIEVHETDELNYSKKSPDSHSVFKFLQKFTFLSCMSPCQETAESDKGLNKKPN | 0.514 | | 92 | S | 0.65 | In | 0.52 | In |
| >df5cc9c90d26cf1c406712c617f83dafa8bc3dfc |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKFGPYEVWEDVLDESFDSQVAPELGDVYTGEAPEIYRDPKEFFKRTYFTDATVEILKRILDTFEGKERRNIFLIYSLFGGGKTHLLLTLYHAFKTPEALEDPEVLEGYIPEKRETIRELAERIKLLGESVKVVPVYGKGRVGQPSIPLNVDPYSVKTIWGYIAHSLGKYSIVEKNDKNLTVPDIETLRDLFKGERVLLLIDEIADYVDNLHNSGAEEDRRYAGNVDNFIDRLSSALSNSTSSMVITLPMTEERGNLRTQEEYNHSVVRALWDAVRRVGGADSYTPVRTVGINDELVEVLKKRIFKHVDPDIRRRTLERIRSETNDVEIFGHGGFAQEIPRTYPFHPEYIQILRTIIEKTDLQRTRDMIRITRIVVRNLIDRYEKEGFAPAIILPIHIDLTNDRIRGMLFGEKSKFADYASIIDAELVNDEKYRAFRHPELARMILTYIFLRTYPFDAPTPLNDFPTLTTISRAIYDPETFSKKQWIPADIKDTVEEIESHPHFVFLNRKDGVFWFWRVANVTKMVDSKTEELIQSNYGEIWNQLVRYVDQLVREKKSIATTRGKGSTVEEHVRFFEQVIVSKEPQELMDNEMYKLFVLVSEDVDEKLLKGIVFQIGSGSRTYKNTVVVCYPIPGTMKHLIMTTARDMACQRVMDTVKEMYGKYGEDVVKIQLNQLRDIRNRALEDLENQIVGSFRKVAYPVKDGIDTADAPASSKSVVENVYSALKGRGKIAEEFDFIEFANWLKENIGLNILKPEGYCVSELRKIICSNPSAPMVDFENLKKSIKEAVRKLKIGLERKGKILFKRVYSEIPDFAQESGVEISKVEPDDIILPANEALRRQVCELLKQEKDEIRDGKRYRVWYEIYLPSSEFSELLKNLVTVENEECQIGDEEAVMYGLILEKKEEVEIKKGEFDLEVARRSVEGKPGEKVEIPVRITAFGDAEIELSSEYGELSYQNVFLREGESLEILWNMTIPSEKKVVKIEAKSEEKMIPKEIVLVPKVESSVLETNTLDETHKGMFLVSVKSIRDLDTLKSLPEDFEGVVSGRLETEKPEWKVQFSETDRKTFEYIAGELEDFLGTKALLDVNFRLSEPQMINDLIFEKLKPLNGKVSFILKKGDQK | 0.56 | | 90 | In | 0.593 | S | -0.52 | S |
| >2652243396eeb50856e53b177594eeb964dd7d47 |  | |  |  |  |  |  |  |
| MSPHHTPLHPCFDPAETSNELSRLLVSGPIVDADLDRRIARLRERFRIYCGIYPFGMWDSGLVVTREMRALTDLLLPLAEILPAFSRLFRLTLRFPPLLEATPLTTACSWLDLLERLDVSAARGNPARLLEQLAGDGARRTSFVFSLFIPRHYGGGFDRYPDQTAFLKRWIRQRGTPEGGIFSVLDAACGCGEGTYALARLLMGMGVAPDRFRVLGSSLEEIELFAARHAFFPHDQRRGEVLRSFAAPLLAAGAATSIGFVREDIREATGGAWDVILCNGILGGPFIHDRQTLERTIARLAARLAPGGLIVAADRFHEGWKRRVPAAMLEEMLRGAGLTVLTVGEGVAGVRP | 0.255 | | 26 | In | 0.637 | In | 0.94 | In |
| >6d28151ef532284651e56a178c616e36a13a3463 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLLKTLVKPKERLVTITADATLEDALKVLEDSGFRCIPILDETGHIFRGNIYKMHIYRHKSRGGDMSLPVTTLLKNATKTIQVDSAFYNIFFSIKDLPYIAVLDEHGYFYGILTHTRLLDMLSQSWNVNVGSYVLTVVSVGERGDLAAMAKIITKYTSIAGCLTLDVQNGTLGYRTLFTLPENVDSEKLKRIIDNLNRKQFKVIEVEDLQAE | 0.199 | | 43 | In | 0.697 | S | 0.16 | In |
| >2838ccdc95795404c0c8128e83739d2aa5d5477a |  | |  |  |  |  |  |  |
| MGDSLVYKLRSGKPPKFIYFAYDMLKMAIPSYFYRMQLKRTIAQLSKRPDRAYIEERVSYYNRLSGNNHPIPQGTHVENKIRYLIYRGKLGNYKMSYFHKAYFFDAREYTRWFSPDLRWQYCPGDVYFTPDSPTIVKSRLLAGDNQNSVILKLDALRHFMFVNDKRSFTTKKDCAIFRGKIRDSRIRTQFIKMYINHPLCDCGVVGHETGIPQEWMVAKKTIREHLEYKFILSLEGNDVASNLKWVMSSNSIAVMTRPTCETWFMEGKLIPDYHYIEIKNDFSDFEEKLTYYINHPEKAQQIIDHAHEYIKQFQNKKRERLISLLVLDKYFKATGQSGEMLEHHHHHH | 0.51 | | 22 | In | 0.946 | In | 0.87 | In |
| >f1e5cb2ca3192e08f2d68a112e84c7188dff36ff |  | |  |  |  |  |  |  |
| MYKCHQKRLQERGYDMEFQHELVIPDEGLPFKFFLFEGSQGNYVREKHWHTSIEIFAVMEGSLTFYLNDEKHPLKAGELMIINSNEVHSIDSPEENHTAVLQIPLKQFEDYFTAHRFIRFAANEQETDSQLWRLIREMYKLYGKRGTGYEFKIRSFYYDVLYLLVNHYRLDEAGEQEVRHSRRLDALARITSYMREHYQEELKLTDVANMFGYSDAYLSRMFQKYANVNFKTYLQDIRMTYAYRELLNSDKTISQIAMDNGFSSSRAFTREFQKRYGILPSEVEREK | 0.437 | | 27 | In | 0.795 | In | -0.48 | S |
| >04051b782bda9854bb26a6e7d7e674c8ec62a588 |  | |  |  |  |  |  |  |
| MNKNERDFFYISNSDLDKLSESYPDRPLSYVFYCYLKETGLLKNFSMDKCHNFFNRINFNESCFEIKFKDDSFFIIGNGKIDVSDSNNFFSVSFEC | 0.097 | | 52 | S | 0.695 | In | 0.67 | In |
| >50230c93bc6a5b592ec861b0e6abe069fd9ea7cc |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAFEEVYLTAIQARFRAVREPAEQALGWLNEEQFHQTLAPDTNSVALLIQHMTNNMTSRWTDFLTTDGEKPDRNRDAEFVDQGHDKETLLTLWNDGWKLVESTLVSLTPDDLERTVLIRGEPHLVVDAIERQLAHYAYHTGQLIFLMKILLGPDFKPLTIPLPHQRH | 0.227 | | 65 | In | 0.669 | S | -1.83 | S |
| >a3c8f80e8ca16df8d58ac33cda2987d5988746a4 |  | |  |  |  |  |  |  |
| IRKDGEFRLHNPVKEQELSDKLGKAEAKKQAEKDNAQSLDALIAAGRDAVEKTESVAEPARQAGGENVGIMQAEEEKKRVQADKDTALAKQREAETRPATTAFPRARRARRDLPQLQPQPQPQPQRDLISRYANSGLSEFSATLNSVFAVQDELDRVFAEDRRNAVWTSGIRDTKHYRSQDFRAYRQQTDLRQIGMQKNLGSGRVGILFSHNRTENTFDDGIGNSARLAHGAVFGQYGIDRFYIGISAGAGFSSGSLSDGIGGKIRRRVLHYGIQARYRAGFGGFGIEPHIGATRYFVQKADYRYENVNIATPGLAFNRYRAGIKADYSFKPAQHISITPYLSLSYTDAASGKVRTRVNTAVLAQDFGKTRSAEWGVNAEIKGFTLSLHAAAAKGPQLEAQHSAGIKLGYRW | 0.336 | | 41 | S | 0.666 | In | 1.55 | In |
| >ce9b85e7ba374fa231a52f791b1f38a0937e11b6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGIERTEIKSIISTEEELRKILGQPSERALKKVISSLDHHCIDFLSKSPFLVLSTANKLGECDASPRGDAPGFVYVLNHNKIIIPERPGNRRIDSILNIISNPRVGLIFFIPGLGETLRINGRAYITNDEEILQEMQANGRDPLLGIVVEIEECYIHCAKAFIRSNMWDPESWLHKKELPSAAKMLLEHAKVNTSEEDVARSLEESYTKRLY | 0.134 | | 85 | S | 0.706 | S | 0.53 | In |
| >dd881460c9db8b7594f33161a9be75450ec3dfa6 |  | |  |  |  |  |  |  |
| MDKKENTVVLFPQLSERYIDEGFLALKERKFEDALRCFEILRQYNAETEQTELASVICLLELKRMEEAKDKCEQLLKTGVVLFGDILETYVTILVQTNDYEGVIETVEKVLQTKDIMPDQKEKLAQLALFAEGMLNEGDASLVDSNFELDEFTNEIFGENFGQKLRAIQRLSLKDLDLALPVLKKFLIEEEQHPYLKTSILYKMIESQVEEEIEVEKFGNTIKVIPAFTGHNEEQSNNIIHKLSSRLEQNYPDIFEAMVTYWKELQISVFPFALLMDKEEIWSAVLERIGRKRFGLAIDEEELMAAYNIELEEFHIAYQWLLRVEREGYLPV | 0.583 | | 96 | In | 0.543 | S | -2.95 | S |
| >daca29d58f1c7e00d7d4a65d1b3a4ffcb99da28e |  | |  |  |  |  |  |  |
| MALSSSSPLRNPFPPIADYAFLSDWETTCLISPAGSVEWLCVPRPDSPSVFGAILDRSAGHFRLGPYGVSVPSARRYLPGSLIMETTWQTHTGWLIVRDALVMGKWHDIERRSRTHRRTPMDWDAEHILLRTVRCVSGTVELMMSCEPAFDYHRLGATWEYSAEAYGEAIARANTEPDAHPTLRLTTNLRIGLEGREARARTRMKEGDDVFVALSWTKHPPPQTYDEAADKMWQTTECWRQWINIGNFPDHPWRAYLQRSALTLKGLTYSPTGALLAASTTSLPETPRGERNWDYRYAWIRDSTFALWGLYTLGLDREADDFFAFIADVSGANNNERHPLQVMYGVGGERSLVEAELHHLSGYDHARPVRIGNGAYNQRQHDIWGSILDSFYLHAKSREQVPENLWPVLKRQVEEAIKHWREPDRGIWEVRGEPQHFTSSKVMCWVALDRGAKLAERQGEKSYAQQWRAIADEIKADILEHGVDSRGVFTQRYGDEALDASLLLVVLTRFLPPDDPRVRNTVLAIADELTEDGLVLRYRVHETDDGLSGEEGTFTICSFWLVSALVEIGEVGRAKRLCERLLSFASPLLLYAEEIEPRSGRHLGNFPQAFTHLALINAVVHVIRAEEEADSSGMFQPANAPM | 0.491 | | 25 | In | 0.516 | S | -0.08 | S |
| >ca808eeb396dcbb5e101f0a7b1882d148f0ec373 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTITPIEPSLRRQADVQNQWLAERLATLLPVLMERTGIDLWIVVAREYNEDPVIMTLLPAPAMNARRRTILIFARRDDGVVDRLTLDRYGYGDLYQQVWNPDTESQDDCLARIVGEYDPQRIGINTSATFAFADGISHHEYERLLAALGPLAARCVSAEPLVIGWLERRIPAELAVYAELVALGHRLIATAFSRAVITPGITTTDDVVWWLRQTMHEAGLRAWFQPTVSIQARGMPFNTPATRNRIWPGDLLHCDVGFCHLGLCTDQQQHAYVLARGETAPPPGLVTALAQANHLQDIVMAEMQVGRTGNQVLAAARERAISAGLQPSIYSHPLGFHGHAAGPTIGLWDRQDGVPGAGDYPLYDETVYAIELNNVAIVPEWDDQPVRIALEEDAVLTGGRMEWLHGRQTQLHVIE | 0.214 | | 17 | In | 0.536 | S | -0.88 | S |
| >c35e003a5c289fd832aef308c40268fe5dbfa6a3 |  | |  |  |  |  |  |  |
| MFESNLLSQINTASPLPTVVEVQFTTSINQSLYKAFQFAHTLLAEKSDRAAVLLPWSDEIYLAVSGMLERLMLEHADTTFSEMIFALRRAEVDGPLAAAPPLSSSSAAASGPSSPGRRPGARSRYLRWLLLGPPPVTTPEERAMNFINDGVSSQLRVHASAPADTAVAAIASPDMATPTPLMDAVATDAAEAVGNAAEAAALSQLKSVELLKAEHAPYGYLRFKTLSRRNKVISLLLLTLKPYLERKAEQWYVRNTDTSVDAVAMRNAYAYRYPHRAALLHFLAKYVYPIYHVMKQGSRFLYMMCFLLEMTPYTSPLHRVFGIALRRSTLEDSLATGPRAQRALLVARVVLILVFCGFRLLDFTRNADGASSPRQIREEGLPIPPPPVLGSDVPLPEDRSSLPKAGECPVCRRHVTNAAVCLTSGIVGCYPCLQGYVREQRTCPATHQSMGVEQIRRVFEC | 0.316 | | 24 | In | 0.974 | In | 1.37 | In |
| >c6ccd942fd8d1afcde4c3323eb9f3ac6883da2e5 |  | |  |  |  |  |  |  |
| GQNWRLQQPAKIERLADGRLNFGAHCWLSGAASLCGGDQRLMPDPRLRYQLKNFPLDSLAQWMPKDFAWKGTLNANVQLDIPAAGPSGQISIDAGGGTLRVRNNDQWLDFPYQTLKLASTLTPKRIDSRLDFEGGKLGRLLLNAQIDPLAKNKTLAGDFNLSGLDISVARPFAPMVQKLSGRLNGNGRLSGSLLAPLVNGSVTLEGGEVAGAELPMELHDLKVQAL | 0.592 | | 70 | S | 0.55 | S | 2.36 | In |
| >72f6dd681d563cf91209c931fe204ab35e080539 |  | |  |  |  |  |  |  |
| MGHHHHHHSHIEVKFRVNFEDIKRKIEGLGAKFFGIEEQEDVYFELPSPKLLRVRKINNTGKSYITYKEILDKRNEEFYELEFEVQDPEGAIELFKRLGFKVQGVVKKRRWIYKLNNVTFELNRVEKAGDFLDIEVITSNPEEGKKIIWDVARRLGLKEEDVEPKLYIELING | 0.718 | | 99 | S | 0.821 | S | -0.26 | S |
| >2691b8f4fe3f6112efbaf87ef4929d274305d1e2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGRGLQDHDIWQPTAPLLPRYTVLHCRAASNAAHPEARNMDVEISKSVLMDIAAGALEGIEGIEVSNAPLKVGEVLRQQGGPRRPRALKVTREGGQVTVDVGLNVEYGRNLVQLAQQAQRAVCENVELMTGLKVKAVNVTVLGVVLPKGAVA | 0.22 | | 72 | S | 0.687 | S | 1.15 | In |
| >5756669887afce143f1f3ede8a4c6e15eadf3a9d |  | |  |  |  |  |  |  |
| MIKSKFKFLVFAAALAFVGMGKNAVHAATYSVKSGDTLYSISRNYGTNYNYLMSANKLQTSAIYAGQSLKVPDVKYTIKSGDTLYSIAKRFGVLLSDLQLANNISNNIIKVGQVIVIPVNTSTAATPSYVISCTSSEVDLLARLINAEAGGESYNAMVSVGAVIVNRVQSSAFPNTVTGVIYQVSNGYYQFTPVLNGMINKGATASSLSAAKAALYGSDPTKGALYFYDNTVSNTWLTSKPVSLVSGKLIFAY | 0.463 | | 24 | In | 0.754 | In | 2.52 | In |
| >ae67f33c0915b0c736d9355ab82a103f2195e132 |  | |  |  |  |  |  |  |
| GPGSMPRPAPRFAMGHMLPHRSNVGSQFLHTQRHGSRSTWYKKHYFSLRPFAIQRHHGTTPRILLDRSLWKSLWITKLQLPDINRWERVVNSQRVTEDRYAFVEEEGVMHKVNWGLYCERLETELTVTQERLPQHTLLMKAAPSSWKKLDIDISVIRGLSLREAMAQCKLSLRKGHQIVFRALEMAQQGAEAKGLDKEHLRVAHISCYPGPTDKQIDIRSKGYYAWKTKKSSHLVLTLAEDPEMVLPDRTCLPYSSLMSMKRAGLSAQPTVIDVPAITAEGI | 0.789 | | 38 | In | 0.975 | In | 0.94 | In |
| >dd7f3c9b5c31f1a7461b00182053c5bfe2cd3461 |  | |  |  |  |  |  |  |
| RRIFDPERTLRDVERFKIHAMISSPIFLKRFFEVEGQEDIDCSSLEFIFSSGHALSPWLVEAVHNRFGKILCNLYGSTEISAAAIANMEEVAKNPTVAGKICEGTTVRILDDNDQPVPAGTVGRIFCYNNTTLNGYTDPRIPIKRVGELVQIGDRGYIDERGLLYVLGRADDMIIVGGENVFPRSVEEVLEPMPGIQDLYASGVDDDETFARIAVWIVKSPTAAGEALTEDAVRDWVRTKLADHSIPRDVHFIDELPRNATGKVMPRMLPGISHPTA | 0.654 | | 70 | In | 0.666 | In | -0.42 | S |
| >2142c89691bce214be3d061868fe3281bdbbe868 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEQSVILVSDQAAVRTLTLNREHKLNAANDKLLLTLTRELERADADPAVRVVVITGAGRGFCAGQDLGDVSGRDMTFTEHLNHTYNPLIRTIRGLSKPVITAVNGVAAGAGASLALAGDIRLWTRGANLIEVFSNIALVPDSGSTWFLPRLVGYHRAFEMMALAEKIGSDDALRLGLCEQVFPDESFRADVQAYAERLAARPANALKLTKQALTDALTSTLDQALDREAELQQLAGDHWEHEEGVTAFKEKRPAQFVREG | 0.155 | | 44 | In | 0.52 | In | -0.58 | S |
| >c14ce8915a1c35b3d60504009c010c9a9cc43bc7 |  | |  |  |  |  |  |  |
| MAHHHHHHMEEHHRGGKKNESSYKFLNADEINNLEYIFNKMKRSKNESVTIQNVQKFLHANHNKDISDDLLDLFHMYGTTITLEDFLTSLNCDINKFKSKEKMKSLFNLLDASNRGYISTRSFIQAAKEFENEFSEETLRSIFNIMDLSSSDRMHFDEFKNAIANM | 0.341 | | 87 | In | 0.802 | In | 0.13 | In |
| >070d2e27053ffab566db43dfb810a4b31530bc5f |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHPSTQAPDIINSVLECGCGAWSEWQGECSQQCGGCGHRLRKRECKKEACRKEEKRPCNFSACPDGTNFLINNAEFHILWRGCCVGLFRSGDQCSALETESNPFFKIINSLLNIQDAKNNDTLIAKRMMRGEH | 0.366 | | 94 | S | 0.691 | In | 1.6 | In |
| >afe8c3c40f375a703c28260848fb63f6dac754c5 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDAKFERRFKSFCNSLDALAEARQRDLSDSFVLSGTSAKFSITFDLSWKVMKDILVQYYSITGFVTGSPREVLRESFKAKLISDDAWMDMLKVRNELAHDYDCEVVRTHCNTIVEKYIDLFYDFKNTIDELLKVG | 0.108 | | 85 | In | 0.527 | In | -0.79 | S |
| >08470a9d8c79f449f3112ad679c84b19244af8ea |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEVNKASLTYDVPEDREYATKRILSLKRPSKIMVIGDVDTGKTTLIVYLANELISRGFKVAIVDADVGQKGILPPATISLALADMKFSSLSELKPLIHYFVGSITPSQFFGEMIVGTMRLSEIGKKFADYVLIDTTGMIYGSGVELKRLKIEAVKPDLILALEKKEELNPIVSGFEDKTIKLKVSENARSYSRSERRQIRQEKWRKYFENAKIVSFSLENVVVTGTSLFQGSDIREEEKSLLERLFKWVILHGRRIGDKYFVVKADVAEVPRVVDKNVVRYFDFEKLSNLLVGLLNEEGLCLGVGIIKGINFGEKRIDILTPVSEIENVREIRFGRIRVREDGEELGILDREAL | 0.228 | | 89 | In | 0.728 | In | 0.64 | In |
| >c53f973805a9b3a9aa2744b6f37ee282b63834dc |  | |  |  |  |  |  |  |
| MSATHYLNQLNHRYLNIHRVKEDFFWDTYMGLSYDHVGSAQAQTEWTQFLSNGARIEEIRQQIELAEQITDSEEKAQTLTGLQGWLAMFESHALESEQAQSLKAGLIQFEADLFEKKQKHVLTYTNEQGEAVEASIVTLGSTVRTHDQEAVRRSAHQAFLGLEQWLLQNGLLELVKRRNHFARSLGYKTFFDYSVAKKEKMTTEQLFTILDDFEQRTRDRHFTSLAELAQSKGEQALQGHNFIYSFAGDVMRELDPYVPFSQSLRRWVESFGRLNIEFSGAELTLDLLDRKGKYPNGFCHGPIPAFYDQGQWVAAKVNFTSNAKPDQVGSGYDGINTLFHEGGHAAHFANVKMNAPCFSQEFAPTSMAYAETQSMFCDSLLMDADWLKTYAKDVQGNPVPDELIKAMVFSRQPFKAYEERSILLVPYFERALYELSEEELTAERVTELARATEKRIIGLECSPRPLMAIPHLLSDESACAYHGYLLAHMAVYQTRAYFLGQFGYFTDNPAIGPLLAKHYWQQGNALSHNDTIVNLTGEGFNARYLADACNLTPDEAWQKQQHKMAQLATREQTKPASLNAQIRVIDGATELASNRDSDEEMCRQFEAYIAKHYGC | 0.411 | | 47 | In | 0.654 | S | -0.82 | S |
| >53435857f99d2de002c2bb6932ae9453afff3403 |  | |  |  |  |  |  |  |
| MSLNMVKRIMGRPRQEECSPQDNALGLMHLRRLFTELCHPPRHMTQKEQEEKLYMMLPVFNRVFGNAPPNTMTEKFSDLLQFTTQVSRLMVTEIRRRASNKSTEAASRAIVQFLEINQSEEASRGWMLLTTINLLASSGQKTVDCMTTMSVPSTLVKCLYLFFDLPHVPEAGGGAQNELPLAERRGLLQKAFVQILVKLCSFVSPAEELAQKDDLQLLFSAITSWCPPYNLPWRKSAGEVLMTISRHGLSVNVVKYIHEKECLSTCVQNMQQSDDLSPLEIVEMFAGLSCFLKDSSDVSQTLLDDFRIWQGYNFLCDLLLRLEQGKEAECRDALKDLVSLVTSLTTYGVSELKPAGVTTGAPFLLPGFAVPQPAGKGHSVRNIQAFAVLQNAFLKAKTNFLAQIILDAITNIYMADNANYFILESQHTLSQFAEKISKLPEVQNKYFEMLEFVVFSLNYIPCKELISVSILLKSSSSYHCSIIAMKTLLKFTRHDYIFKDVFREVGLLEVMVNLLHKYAALLKDPAQALNEGHHHHHH | 0.542 | | 51 | In | 0.815 | In | 0.48 | In |
| >bd81b09a05c406abbc204256a7d99ebce52a0812 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEELLESNLLRHFRIVRFLLGREWVTIGELAHTLRIPSRTIRQSIGEINQYINLAKIESSQKFGIRLTYDAQLNSFYIYASIYKQSAHFLIIENICIHRYATLAVLAEKLFISQSTLKRKIAVINQTLEEYGFWIDTKSVDMVGDERKIRFFYYCYLLEKYDVLDLVAPEQELRVIDELISEFFAQFPSLQSPERQVFSYLNKLRTMLFISFKRLKKGRRLASHDQIDEQYSLLLSEKLSKKIAVCYHIDCTKDVLHQLFFLFFNRRYAWSANDLQKKAEHDEAIAKVRRTLLAFFAKIEKSEQLVLINKDELLLLLYNATSYTWTSAKILHNPSEDFFVNLNHYHEGFARRIKKELVACLNREQLDIYLDDSVINQLLFMLVTAWKGLMDQLEASAPRVKAGIFFNTSFEHSQFLLNDISYHLKSRLDMTLITAKTITELRQQCQHVDMLITNLSMLPSPDCHIVSIQANLTPKDFENILSVYSEIVNANVTAS | 0.127 | | 54 | In | 0.969 | In | -0.07 | S |
| >9ec56ed37ce90d0f6c1e01bf6f987599cb8c7842 |  | |  |  |  |  |  |  |
| MTLQSSDKRSPSLLDASSEVFVHDLAALSPTDATAWGISGFEGDLQDFSPDYWNAIAERNRDMVADVDAFDDGTDDNDDEEDFDDVDRVTADVLRDRVCLDLALHHQGETLANLNNIDSPVQTIRDTFLIMPRETDDDVENLRERLSRVPDALHGYCESLAEAASQGHVAAVRQVEEVVSQCEDLADEDSVLQHLGLDENDPVVVEAQEAFARVAGWLAEQLAPHAPHVDAVGRDRYEMFSHLHVGEFVDLDEAYQWSLEQLRDIDAQQLQVAQQLYGPGTTIREAMKKLNADERYLIRGTDALQEWMQKTADQAIADLDGVSFNIPEQARQVECLIDPAGTGGIFYTPPSDDFSRPGRMWWSVPKTQEVFHTWQELTTVFHEGVPGHHLQISQTLVEKDLNLWRRVACWNSGHGEGWALYAESLMKELGYHEDPGNLMGYLDAQRLRAARVAIDIGIHLNKRNPECTGLWDASYARSFLRENTSMNEDALYFELNRYLGWPGQAASYAIGQRLWLNLRDEAISQGQTLAQFHSKALSYGSIPMGILRDQVLN | 0.539 | | 46 | S | 0.617 | S | -2.47 | S |
| >38733a2ca1f59882b753bc3b77efb5b4990049cf |  | |  |  |  |  |  |  |
| MVTLRHNGEAYEVVVKFKPQGDVPFAVEPCLHDFVAGRTDVPVPRILVYEDNPDADVPPYFVTERIHGENLAEEFAGLSTADRRRVLAQSGRILGDMHSEIGFEAFGRLTLHDDRIIVSDWMGNWQEYFESLTRSHLSHLDGTPFEDMTDRAWDCIEPALSMVPEDGVPRLVHDDFRPANLMFEQTEESPITAVLDWQDVLAALPEYNLAQTEFLFIDSSFQDPERRESLRTVFHEGYQEMRPMEFDEGYEQRRPLYQLSTLLWRMAGFEAVFDDKSGLAAARAEAQYRQQFERLVEEIQTN | 0.56 | | 54 | In | 0.603 | In | -2.72 | S |
| >a05bab536c4cb0e7d8e82315003ec0b3aa67700e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNECKSKGKNQAKRILDAALNCISMKGYANVSMRDIADEAGVVLSQLSYYYRNKEGIFKEITKRITEKYLYEIDNILKRGKCEEEKISSLIKYFQETLKNNPNRFKILFDLTSMSIFSKPIKNLLNSFYDKASEIVQNNVMNDLIAKERFKNYSPKVLSKMLLGTLYGVSAQFVMSDKDENVPDNIFEELRMMFR | 0.158 | | 86 | In | 0.522 | S | 1.61 | In |
| >2cf512734f505e41cfc4a2f5a9b427399d73c09b |  | |  |  |  |  |  |  |
| MADENRLNSILCKFDADWMASDEARTEATNDLYFSRVSQWDDWLSNYTTLQYRGQFDVVRPEVRKLVAEMRRNPVDVLFRPKDGANPDAADVLMGMYRTDMRHNTAKIAVNVGVREQIESGVGAWRLVTQYEDNDPTSNNQVIRRLPIHEACSHVIWDANSKQMDKSDAKHCTVINALSRNGWKEFAEDYGIDPDTLPSFQNPNDTWLFPWVSNDVVYVAEYYEVEEEKEKVFIYRDPLTGEPVSYYQQDIKDVIDDLANRGFIKVAERKVKRRRVYKSIITCTQILKDREKIAGEHIPIVPVYGEWSFAGDKECYEGVVRLTKDGQRLRNMIMSFNADIVARSPKKKPTFFPEQIEGYEYMYGGNDDYPYYLQNRTDENGNDLPIGPISYMENPEVPQANAYMLEAATNAVKEVASLGVDAQAANGQVAFDTVNQLNMRADLETYVFQDNLATAMRRDGEIYASMVNDIYDVPRHVTLTLEDGSEKDVQLYAQVVDYQSGNVVTLNDIRGRYECYTDVGPSFQSMKEQNRAEIQELLTKVPQGTPEFQMLMLQYFTLLDGKGVEMMREYANKQLVMMGLKKPETPEEMEMVQQAQQQPQQPSAEQIQAQGILLQGQAELLKAENQQAQIQVEAAKVEAQNQLNAAKIAEIFNNMDLDKQAELREYLRLVGQFQQQRSKDARANAELLLKDADQTHSQRMDFANLMRQVQIPSGGVAETPQ | 0.448 | | 54 | S | 0.678 | In | -0.99 | S |
| >b99c4fba4783e8b8a3bc323329d4be4c49f9e1c2 |  | |  |  |  |  |  |  |
| MIKKPHHTPSLFSSLSDMLNQSHPLYKLADKIDWEKFDTAFRPLYCQHNGRPSKPIRLMCGLLILKHLRNLSDESVVEQWSENAYYQYFCGMQEFAPGAPCASSELVHFRHRIGEKGIELIFQESIRVNNEDDDEHHHDTAFIDSTVQEKNITFPTDAKLHKKIVRKILDIVHKLNLPLRQSYTFVLKRIYRDQRFRHHPKNRKKALKADNKLRTIAGRLVRELKRNLGDNSLYAELIERFEAILSQRRNSPQKIYSIHEPEVQCISKGKEHKKYEFGNKVSVIRSATGIILEARSFRNEYDGHTIEASPEQVERLTHRKIKIPAGDRGYRGRKEVNGTRILIPDTPKQSDSRHQRCKKHKLFCKRAGIEPTIGHLKSDHRLGCNFYKGLAGDAINILLAAAAYNFKRAMKALWDFIKIISQMPFANGFSLKEVF | 0.279 | | 67 | In | 0.986 | In | 0.57 | In |
| >829f15e9946414f00ac5e259675ad0c90e721744 |  | |  |  |  |  |  |  |
| MAQYLIDIHKTTIDGDIVQTVNARELHTFLEVGKDFSTWIKDRINKYNLLENQDYLVFTNFGENLQGGRPSKDYHLTLNVAKELSMVENNKKGREARLYFIECERRLKQAATLQIETPQVDYSKPEVLRGVLNHLQSQIEQKDHVIAELAPKAEALEGLKRSDGLFGLIEAAKMLEVRPKDLTDYLRKHDWVYRRAPSGPLLPYQDKIKKGFMDCPAITIQRPDGTEKVLPSTKITPKGLACLREQIHGGVQ | 0.394 | | 82 | S | 0.625 | In | 0.45 | In |
| >06f88160655b5a08d282077df95b84395db09888 |  | |  |  |  |  |  |  |
| INRIIDVTVKPLKRYQYERYAVLCNLAYPRIFKQTRYGFDPNGQRVITNQFGKIMIRVLWSRASDEVVVVIKGSHSLTDWLLNFAVWTRSCRHLGLQYRIHAGFYHLLHQESQPSRNQDTLGMTVIEKLEQTLLPLIEQGKR | 0.368 | | 13 | In | 0.59 | S | 0.13 | In |
| >853ddb9e829d68332f3f35958a3769c04ae23aac |  | |  |  |  |  |  |  |
| MGHHHHHHSHMPGPGLVKDSPLLLQQISAMRLHISQLQHENSILKGAQMKASLASLPPLHVAKLSHEGPGSELPAGALYRKTSQLLETLNQLSTHTHVVDITRTSPAAKSPSAQLMEQVAQLKSLSDTVEKLKDEVLKETVSQRPGATVPTDFATFPSSAFLRAKEEQQDDTVYMGKVTFSCAAGFGQRHRLVLTQEQLHQLHSRLIS | 0.505 | | 93 | S | 0.508 | In | 1.17 | In |
| >7b763307a7ab857c43ac3bfbb375b40419d41ee7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAASVFATIENPIFFCESPAMIDPLAEVVTLLQPSTRYSKLVHGASPWRISRTVAGEPFYCVVLEGGCRVAIDGHPPIELLPGDFVLIPAAYGVAISSLELPPPGVETAAPVVLDNGEYRIGDASRPVDARMMAGHCSFSSPDAALLVSLLPQYVHVRGEPRLTTLVQLVRDESRAQRPARELVLSRLVEVLLIEALRFSADTGTSPGLVRGLADSRLAAAIRGMHERPAHPWTVVELAKEAALSRSTFFERFSRAVGVAPMEYLLTWRMALAKNLLRRDEGRIAEIAGRVGYSSASTFSVAFTRHVGRPPAQYARDERAAASDA | 0.182 | | 42 | In | 0.961 | In | 0.84 | In |
| >c697d8526889e9bbe6e681a7616e0b1bf9afb0ec |  | |  |  |  |  |  |  |
| ADVTSYVKESGVYTVADLSTTQGTINQLGSFGAWAIVVVYRNNSETFKNITLFDGYDIVSSGNNKSYTLSGFLTPTKGTVKSSFLTFTGEGDVDITGDYIQLGGTRL | 0.81 | | 23 | In | 0.666 | S | 1.04 | In |
| >be42373cf82558d7b107dd22c62ad03d72fa3697 |  | |  |  |  |  |  |  |
| MKFRKLVSLGILSTLLLSVITGCNNASSGSNLKSNNKIKGELTVYTAIEEDSIDTYLTTFKEKYPDIKLNVLRLSVGDITARLLAEKDNPKADVLWGVAATSLIILDDKEMLEPYAPKGFDKVNPVFKDDKKVPSWVGIDAWMTGITVNTKELSDKNIPVPSSYEDLIKPEYKGLISMPNPASSGTGYLTVSELIQIMGEEKAWQYMDKLHKNIGVYTQSGSAPAILAASGEYPIGISFGNRGIKLKGEGYPVEVVFPKEGSGWEIESNALVKKDNIKEASKVFLDWAISKDAMNEYSKNFAVTTIDTGNPVPEGFPKNPLEQMIDNDLKSAARNREAILNKWIEKYDGKTEKES | 0.527 | | 92 | In | 0.582 | S | 1.16 | In |
| >ca67f59e4529d010d3f007666a52c21d2ae2c431 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIVSFSLENWMSFRNQVTFSMVASRERQHGDRVPKLGKYQTRVLPVAAIYGGNASGKTNFFKALSFAKALVVKGTQPDSLIPVEPFRLDAKVADQPSRFGFELLIDEIIYEFSFAVTRKAVLEEKLVAITSTSEKVLYHRRDGKPNFDDSLAKDQFLQFAFKGTRDNQLFLTNSVSQKVDNFRPVYDWFKDTLELVAPDSRFEPFEQFLDEGHPLYSTMNEMLPQLDTGIAHLGGEEIPFENIPLPEPLKTKLQEDVKEGMTVRLLTEPINERFVVTRKGGELIAKKLVTYHPKADGTEAKFEIRQESDGSQRVIDLLPAFLELSAQVSKKVYVIDEVDRSLHTLLTRRLLEAYLTNCSTETRTQLLLTTHDVLLMDQQLLRRDEMWVAERDATGASNLLSFSEYKDVRYDKDIRKSYLQGRLGGIPRILLGGALTNPCLTEESEGDD | 0.343 | | 60 | In | 0.551 | S | -0.22 | S |
| >20d442a8c4d5f41e4279424bc06af0e2a8fd662d |  | |  |  |  |  |  |  |
| RINNQEDAEKAYKEALSIIEILAKNNPSAYEIVYAQTMTFGILCLGKDPKDIQQIKATLQKYPDNNQAIALLERIKSREEENPKA | 0.805 | | 95 | S | 0.665 | S | -0.04 | S |
| >6660d880599e684408315c23db7463a2be421089 |  | |  |  |  |  |  |  |
| MAKRAMNALAADGETTYQLSAKDYTIGDSEVTGVYDNEKAVTIKLFVDDVAVDEITPDNSKNIYAISTSKTTIVKDSKVEVAEYDADKNELTKILVTVIDPNGGGNEMDEKEKIDKFISRKLTVLNEKDGIVYEQLAIRVIQVNQK | 0.451 | | 99 | In | 0.69 | S | -1.57 | S |
| >8244f2729de6eb53f0d7eb85a9a27d9df776afc1 |  | |  |  |  |  |  |  |
| MNRIRAALPWRKKNYYGDSDSTGYCSSSDVSKALSDSQFILRPNTALLSSSYSNGTNYYALDCTERSRLKEKGGTVTSRTSTVSSTTFKSHSMSTAADCDYEGEDESTTIRANSVRQVPMMPKLTSIKHLMTESSSEELPQHDEMEDDVATLEEVSMEYDDEDDDDVTLDIVPRREYRNSSFRSFPFSYQLMESEMDRLFDMMQVDEQIPKPTSTIYYHDISSSEASPPPPRPSITRTESVPRSILKNSSSFAIYEEIYGDHLTPPPIDIRPQLPVRPIMAFQQFPPCTTFQPRLIQRLPSVRRRKKMPSLHHSTSFASYFRKRK | 0.506 | | 91 | In | 0.976 | In | 1.08 | In |
| >48a0ed32ef193dc2650835bde7e36958d5fafc5e |  | |  |  |  |  |  |  |
| MAHHHHHHMLQSCRRLFDTLPFVPMALSTLDILEQRLLAAGLGGTTNTAATPKSLVAPSASSNYSEADKADQLKWFSSSVNAPFFISPKHDGVRLISYVSPTTATGPPSAQQASSKTKTGAATVAPPPLMTCYSRYGRPIYGLFWIEEELRLLRALCGDASLIIDGELYLHQTDMDASRGGREGRANASDGRKRKPARTALPSSDADGVNSFNTGFLAVSALVNRFRSSTFRCASKESVLKYVPSLPRLCVFDVPSYNPCANPLAPPTRNAPTAISAASRLHVETKASVKYDGSPQQVLAELQRVRGNVTDALRLNDVEQLRIVPNVTPFSQRLRTMHYLFELLSRGMKSPVLRQHFCPTSSRMCGAPTTRPIRNCRKHTPTAAQVQPPHSGIGQHHGGHFVSRIPYQLVKSLEDTTQRMLPMYLDAGYEGAVIRAPVNTYDFKEKTKGTLAALVAPLLRATETTKTRRGRHLRGTSTGAGEASGRRARNRAALLLSLNTGPVLGAATPLMVHAYRGDAPRREPMQPILPSDAGLTDAELDVLDVVAVGRRAVLQSAKLPQRSMTAVKVLTYHDREYPILRPLLKEPSKNPRTRELVSIPRSHVRALGYPIKRSTDTALSDGDGATTLTPATPRCGKKKTKSMNHATTAGQGSAVFYGLQCLAENGLVFNTSLPKMTLAQQKTLLQHLLSAGRDPMREGREAASATMKTPHNKRSNAEAPYGGAAHPSPSKIVSLTGLYATVKFSTLTEHGLPRFGSIKAIRGGKGWFM | 0.321 | | 52 | In | 0.988 | In | 1.52 | In |
| >828ebcbc6b8dc0f5f76b62e9351c056bd0234e52 |  | |  |  |  |  |  |  |
| MDSRKFTEASKRRLSELLDAKSEQGNTMRCDEVQGFMTALLSGPDKLTPLDWLPEVLGDESQFTAAERSEIERLVLAMAMETTAAMSDKKLPDLWLYENEDGGSDFYTWCNAYLYGLDIVPTDWFEAVDDEAFEELFYPIMALGGIYDEEENGAIRLQFTEGELAELESELPYALADIYRYWQAVINKPQTVRREGE | 0.536 | | 56 | S | 0.864 | S | -3.61 | S |
| >bae503f50c992b02a3c6a27c29607f13a221f271 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNTYFITGATGVLGSAIVKELLSNPENRLVLLVRAENELVLQKRITELLSFLGVGEKTRDRMDFIRGDVELERFGLHPGNFIKLGDQVTHIIHSAASVRMNYSLERARLAAVTATEHVLQLARLSRKNGLLQKMEAVSTVGVGGRYYGALPEQWLNTPRNFHNTYEQSKAEAEIILKTEVDQGMPITVHRPSMIVGDSQTGRILNFQIFYYLLEFITGRRTWGVMPDISDRHVDAIPVDYVARAISWSSKNPETIGKILHLCAGLENITSLENAEKLARSKFMKMNLPVPHKRVLPVAQFRFLVNSVTPFLPRKIRRSVSALPIFLNYTKNQIFDNTETNIILSSAGLQMPRSDEFLGPVIDYYLSQAYLT | 0.167 | | 22 | In | 0.744 | In | 1.41 | In |
| >485f1638ade6bd484ec5a6033e2bc6b5f30a91ab |  | |  |  |  |  |  |  |
| MNLMNLAPPESVAGEHFDVIIVGSGFGSSFFLHRLLRQPGRRVLVLEWGRHSTHDWQLEEGRNSPVTDSDTYATNSEKPWNFTIGFGGGTNCWFAQTPRLHPADFRLGTDHGVAQDWPVSYDDLEPYWCEAEEIMAVSGDPDMAQVMPRSRPFPQPPHVMPDPDRLMKAARPDSHFVMPTARARIATETRAACCASLRCQICPADAKFTANNSLVPLYETPGVTLCLETEVRRFEAAGSSISAAVIRGPDGREHKVTGDLFVLGANAIHSPAILLRSDLGGGLTGVGLHESYGWSMEAWLDGVDNFGGSTITTGLDFGLYDGPHRKDRGAALVYFENRWSHGMRLGAERMRQTLPLVIVTEDLPEDRNRVTLDGEGRAFVDYHGPSDYALRGMERAKAALPELLAPLPVEKILDHGIRETESHLQGTLRMGSDPATSVVDAGLVHHRLRNLVVVGTSTFPTCSAANPSLTAAALSLRAADLLILEHHHHHH | 0.577 | | 40 | In | 0.576 | In | 0.25 | In |
| >58aef0ada9b90624ebeee5ab026edd078e233b31 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEAAQRFESGLFEYLGGIHPGELYLITYTSEEPVHLAFYILVKNLAESNIPFAVIDVLDHLHLIKVNLKLAGIDTSIIDKAKVIKVGGFIETGEIVKRISFDSEILVFGKQLNEMIMRLGASKGRPIIIIGVGAEKIVRMFEGSPSELETFFALLGRAPLGNESFSRIVFLNTSLLQKEALYEFIELATRVFELKLEGEAGIDKRLSFKIVKSMKFEEYGEELKVSASTLQNHLKTL | 0.129 | | 77 | In | 0.879 | S | -0.09 | S |
| >179c2f78175c528151ae79461e8ab2678289e267 |  | |  |  |  |  |  |  |
| MSGMQYPPQALNKAMLEAVDFIHAEGWDAPPTLFALVPAELIGQALPDDDDSPLALVVQDNLPEHIRPGSEELGDYVSRISWPEQVVGAVLAQEIMFRDSSADSDEARPARLFSGVLRGDADLTLLQIRPTEEELTERGPFAEDDIELRGGPSVAPGVIAALRATLD | 0.517 | | 76 | S | 0.838 | S | -2.53 | S |
| >018e9c6ce4e9980c75a070256d0f04352716ad95 |  | |  |  |  |  |  |  |
| MMPMTEEFYDEEEELGCFRFNPSEEELILDYLLPKLGFHQPNTIYLLEDRDNIYAKEPWRLNHTENDIFEPNEWFYFVKRTNRKVKGWKATGELKDVVSKKTGEVIGKKRNLRFYVEGDESKTSGWTMREYSSIGNQNQRLCHLKGP | 0.559 | | 62 | In | 0.5 | S | 0.06 | In |
| >42be61ad64267c005c41a57ce321427ee398d920 |  | |  |  |  |  |  |  |
| MHGVPESGYKAPALSDPDVCQRTPFMLRLSMPALLLALAGCATKPPANPDNLCEIFREKPKWHEAALKMQQRWGAPVQVPMAMMYQESSFKHDALPPRYYFLGFIPWGRVSSAYGYAQAKDETWADYKREAGGWGASRDDFADALDFMGWYIQKSQRVNGVSKWDAYGQYLNYHEGWGGYRNRSYDAKPWLKNVSQKVQSRASLFGAQYRSCQQELSRGGWFW | 0.405 | | 27 | S | 0.661 | In | 2.07 | In |
| >d6400833381fe129e877d59d3b849164f873f744 |  | |  |  |  |  |  |  |
| MSLLQQLQQNQNQAAPQNMLNIAGAFPPQTQPPQQAISAAHSELEQNHRVLLQLMDTLVSQIKDYSEDVEFNLQNDSTIKNTIVEILSFISRSNQKDQLSLKVSQAVVNSLFGSNESKLCRDVLSLLLEKLCSLSIVARKDVVWWLVYALDPRKFNVPVVRSLLEVNLINIAEFDAVLVTAMKNGMAGATEFSMNLIRDTVMADSPILMRLDFIRILGYLRTINTPEIKAFLEEYEQCRAVPVSKTTSITKVERYYLVFTEWVKLQQRVETDDVVNIVFIRQLFEKGVIDSKEKVIEFIKAALELSVNSFKQSDPTGEVFTSIDALSRLITSLLVVQELNVEERKEYLNLLLSVVTLVFAKDHQTNMTSFNERPYFRLYSSLLSDWDKLRDHHFIRVSDSVVRKSLIEFDQYFFDIFASFLHSYQPIAFPGFSFAWITLISHRMFLPKVLRSKELYGWDKLVLLLIDLMKFLSQYIKKDNVPDSISVIYKGALRIFLGISNDVPEFLIQNHYKLVKNVPPTCIQLRNIILSAIPKKMMIPDPFVSEITEDNCKDIPQVFYDPSQDLKSLKKPIINYLRIPSSSLLRTICGGMFRTELEYENGIGYDENNVDVNLIHAIVTHVAVEVGLEVEKASKNAVFNVKSSYYTLLFGLLSDGNDEVKFHIIQAMVNQLRYPNVHTHWFNFALKLMFQSDQWPDDQLSTIQEIILRSLLERIIVNKPHPWGVVVTFMDLLKLEGTKMIEKPFINDIPEIHAIMKNLQKYALTSSSEGHHHHHH | 0.56 | | 50 | In | 0.953 | In | 0.18 | In |
| >3e8baf2c818e2a2f69ab3d9c63d5f8f6c34e24a3 |  | |  |  |  |  |  |  |
| MAKIESQGYCLSIIKEPPANLTVVTGVEVFDECLALIAVIEEKNSLYFYKIRKKLLMPKTLPLELVIRQNYEYLEHHHHHH | 0.57 | | 98 | In | 0.549 | S | -0.68 | S |
| >5335cd466224ff47c9d70c9a7ba0c6ee2b9f64e4 |  | |  |  |  |  |  |  |
| MFLVDTNVFLEILLGQKKKEEAKKFLSENIDRLYMTDFSLHSIGVILFKLRKPEVFEEFIEDVLPNVEILSLPVEGYPELIRIHKTLNLDFDDAYQCAVANVFDLTVVTMDTDFTKALNYVKILFLLEHHHHHH | 0.59 | | 99 | S | 0.667 | S | -2.62 | S |
| >56202cc4bc0fc6962f5e6b92190bf719ed357827 |  | |  |  |  |  |  |  |
| YHLARRRTLQVVVSSLLTEAGFESAEKASVETLTEMLQSYISEIGRSAKSYCEHTARTQPTLSDIVVTLVEMGFNVDTLEDPAANKARKEAELAAATAEQ | 0.312 | | 74 | S | 0.578 | S | -1.61 | S |
| >afa0ad8d068a61eb74c5c3150fb3aa74b52830a5 |  | |  |  |  |  |  |  |
| MYYGHEPHDWGTSSSTSDMKECTICEAPSNGYHFNAASCSACAAFFRRTVTLNRNFVCTHQNTCRVNYAMRVICRACRYHKCINMGMERSAVQPRRDCNAGRRKIMYNSTNSLKTQEHTFAPPTPTVPQTTTVIVTKDERIYEDSSPEIHYAQSYSSSISEEISSLSPKISVSMCSGTDITLNFEAEQVLEDLLREERLFNERRKLLYCSNSCISELLTNENANEIPYSQSNLQPLTFAGIQKHIRPQILVIYEWLRGWRHFELLNIKDKSVFLRRCVLYHTILDPSYLSYRLGLPEKFVMFNGMYVGVQDGDKTGWEDEKDCITADLKIKLYRPLMDRLINEVCVSMKVINLTFVEFVLLKALVCFKSSTTCEVSVPLKKFMNTYMDTILRALNVHYQTLGMTKEDIAQRIGNVILMMSSIFAVGMECLESHQKIQFFDLWQLDDLLIKLIQRGGGGANY | 0.434 | | 26 | In | 0.984 | In | 0.78 | In |
| >d67eacd9d88a428fb71d89954afaa3faec654d86 |  | |  |  |  |  |  |  |
| MRSSDILIVDDEVGIRDLLSEILQDEGYSVALAENAEEARKLRHQARPAMVLLDIWMPDCDGITLLKEWAKNGQLNMPVVVMSGHASIDTAVEATKIGAIDFLEKPISLQKLLSAVENALKHGAAQIETGPVFDKLGNSAAIQEMNREVEAAAKRTSPVFLTGEAGSPFETVARYFHKNGTPWVSPARVEYLIDMPMELLQKAEGGVLYVGDIAQYSRNIQTGITFIIGKAERCRVRVIASCSYAAGSDGISCEEKLAGLFSESVVRIPPLSMQHEDIPFLIQGIACNVAESQKITPTAFSDDALAVLSRYDWPGNFEQLQNVVTTLLLEADGQEIGIGAASSALGRGVPADGTGHMACGFDFNLPLRELREEVERRYFEYHIAQEGQNMSKVAQKVGLERTHLYRKLKQLGIGVSRRAGEKTEE | 0.491 | | 53 | S | 0.602 | S | -0.37 | S |
| >390b14548468bf647909cc54a9f1dba77cb6641c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAEPRILLESGTNELEIVEFMIDETGPNGETVHSYFGVNVAKVREIIRKPQMWKVFNANSAVSGMMKLRDKVITVVNLATVLGKEYSALAPDRVVVLEFNRMMVGVLVNGVSRIYRISWEQVEPPVRAIESAYVTGVVKMEDRIILILDFEKIVGELCSEETLRALSEEQLLPGPVLDRSQRRILVADDSAFIRNSICSSLRGAGYNVDEAENGEDAWNMIQDKLTRCRAAGVNLRSELDLLITDVEMPKMDGLHLTTLVKKDDVLKDLPVLIFSSLASDDNKRKWKDLGALDIVTKPDLPNLVKIADSVMH | 0.427 | | 86 | In | 0.743 | In | -0.37 | S |
| >91adefa13058bcb56dcfea72ff62bf6af7aa52ab |  | |  |  |  |  |  |  |
| MGRDILIGFVGKPSSGKSTMLNALTDATAKTGNFPFTTIEPNRAIGYAQIECACSRFGLQDKCKPIYGGCKNGVRSIPIQLLDVAGLIPGAHAGKGLGNKFLDDLRHADALVHVVDVSGTTDAEGKVCRGYDPSVDIAWLYKEITAWIGNNLREKWPNIVRRHIATKANPVNTLQSQFSGYGSTPAVTAKVLDSLHLDTPLEKWDDDTIEKVVNRFVDIKFPTVIALNKIDHPDADANISKIARKEDPNRLVLASAISEVFLRRLAKQGFVKYEEGSEFVDTLDDFPDSGLKPLSENLKTRIADLQDMVLFRHGSTGVCNVLAKAMELLNLIPVFPVKNVHNFANSPNEGVFRDCILVKQGTTAGQVSQMVLGGEAMSIVGVNGNVGESDVIVPGKTDILHFRLRKAEA | 0.561 | | 78 | In | 0.958 | In | 1.1 | In |
| >4bd907edb8ede7900832db34b464c7cbf2707f41 |  | |  |  |  |  |  |  |
| MSLTSTPFSTDDERYSGYTNSAMSPPLQKQLIQEVSLSYSAPYTSTVKPSRHDLPLAFSPYSLDSEIEDLHSHTYSQLSNRSNGNKVESAERIYTASRKETEFPAKADPIPYFSAQSAIKAGRESPSYTTRSTPTPRQTPISFDQASTARLDSGLSQNLIVSESTTFEELTTITTSNNRTTRKKEIKTEMPTVNALTKQFEISSQQEKVVPLKPRKSSNVDYNGNGNSRSQNGTYTPNRSAIVYSPGGILTTTIVDIEPARFGRRTEEYKIQEEYIVQRYDNGSSPNYQRQEQGYQQQQQHRSREYKTHRQEKQENYNQRSYSATENREVDAPVDTSPIDVVKNVIDRWETKIGGTTTRFYASDQQLRSVSRVDMNDNVPRSAQEKIIVHQRSESQPTERVIPISPLPHRVEPTRTTQSGGLLQTYEELKTVVVKQSSDQTPQKIVPRAQSPVTSPVFKETILSPPPIPTPSPTSDIAEEVLRTDETTQHTAITMHSIVTKEVKQEAKEKINSVTDNAEMKEKVVEIAKNVEYEWEKKPLTPTPTPIPPQQQEVKQEELKVENKIENDQNEVHLHKFLDRDYRIKTYEEYSTTKRLRDRSQPPERPPTSYSSYSDRSRSIDRTYERRVLGSGMSRTYSEGRGLASGTYASGFGQLVSGMSSAGAICTTQIRDAREREKREIGLLNDRLADYIEKVRFLEAQNRCLSHDIDILRNGFSGGGHVSGLFDAEINQAKHILEQTTAHRSTFERDITGLSAEIEVFRKKWLDAVNAVKAHREDHDVDLDRLAKIEAEISLFKRKIRIVEEDVIRIRRENDGIYNEIARIKQLTHNEIALKNERSLNVSDLLQRINLLQTENNVRIEQELVFIRRDTTADNRDYFRHELQAAIRDIRADYEAISIRNRQDIEVWYREQIRKIQDESVRVNPDLYKEELISIRTTVTNVRSRLAEVEGRNFFLERLIDDLKNNEEAKFFEISLAERDAQIATLRDQCTELSIQMEKLCDNEISLRAEIERYRILLNGANVTTYTSNTHGSGSGIAVGGVVGGSTRVISQTTRTHSSSNTSYSNVPASRGGYSISGNVGGISVGGTIGSHGASAHATGGIIGSGVQAHRGSVSSLITDKPRDRVHDEKGVDQSGRHFHSWYLGTISINQVTPSYIELKNICKIRRVDVGGFRIEQSVNGQVLGSAQINVPLILDPQEVVRFNHRHGKYLGQFFMDVDAFDNSTVARTSMYNYTEPHEERAWFVYLD | 0.428 | | 74 | S | 0.991 | In | 0.98 | In |
| >82ededc3e24e52beafdb88cded0e0aabf4f2f6d5 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVAAAQKARSKPATSATATWRDVTPARVVLIGGPEEYLGIRAMDRIRSQVRAAQPDVEITRLNAGSYEPGSLAMNVSPSLFGESKLIEVESAEAMNDAFLTDALKYLADPEPDAVLVVRHGGGVRGKKLLDAIKAAGWPVVDCQPLKKDADKSAFVAAEFKAASRRIEPEAVHALVNAVGANLSELAAACSQLIADAATAVDTDMVDRYYGGRIEATAFKVADAALAGNGPLALSTLRHALATGADPVPLVAALAAKLRTVAKVAGAQGSSAQIARQLGMQPWLVEQAQRDVRRWTPEGLVRSIQVTAEADAQVKGLSRDPVYAVEHAVTVIATSVRRN | 0.26 | | 56 | S | 0.87 | In | 0.44 | In |
| >8f5089a84e3beb12100e9097842b387b2c09fa08 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRVLLADDHSIIRNALKFILQDLEAEVTFEEAREYPSLEDRLAAEGPPLDMVVMDLQMPGYEGLAQIRRIVERAAPTPIAVFSMMEAVEDMRAVLRQGVRAFIPKSTDEALIGTLLKLVAGGGTYVPAQVSGISDCRFPPPLKVVLATDIRTIGEDFDDNPRLSDLTRRQREVLALMSQGLSNLEIGNRLGLNLSTVKTHVTGILKALDAGNRTQAVLMARGLDHG | 0.202 | | 50 | S | 0.661 | S | -0.29 | S |
| >c486cfc72a90651307320cfbab7b877f413923fa |  | |  |  |  |  |  |  |
| MSTRSKEVLYRFRPDSLEAIAEHLNLRTEKQLATALGLWGDVEVLGELRRGMSVGAPMVLHVSSLMGFENYVGAWFDPVREPQAA | 0.376 | | 28 | In | 0.565 | S | 0.16 | In |
| >634634c8afe6e114546d7d86c28043b5f4c0912d |  | |  |  |  |  |  |  |
| MAAAAGFNWDDADVKKRWDAFTKFGAATATEMTGKNFDKWLKDAGVLDNKAITGTMTGIAFSKVTGPKKKATFDETKKVLAFVAEDRARQSKKPIQDELDAITEKLAKLEAPSVGGAAKANAAGVYSRLTDHTKYTGAHKERFDAEGKGKGKSGRADTTENTGYVGAYKNKDSYDKTHGK | 0.71 | | 98 | S | 0.676 | S | 0.69 | In |
| >97acbd93e3994516f8b7e5bd9fab36bdecd09799 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVFDVLIKNGKTEREQPIEIGINGSQIAALAPKLEGASGKQEIDLHHEAYVSAGWIDDHAHCYEKLTLYYDDPDEDGYKTGVTTVIDAGSTGADNIRDFYNITRDKKTNVYALINIGRTGILAQDELGDISKVNKEALFDAVHDLPDFIVGIKARESHSVVIDNGIKPLLAAKSYAALLGNLPVMVHVGANPPELKDIMQAMGKGDVLTHAYNGKPNGMVDEHGEIKEFIYDAYDRGVIFDVGHGTDSFNFKTMRIARDHGLDPKSLSTDIYHRNRENGPVYDMATTMEKMLQVGYTLPEVIRMVTFAPADNFHLLNKGRLRPGKDADITIYNVTDGEKTLTDSNGNTETGHQLITPIRTIVGGTVYDLEEQHV | 0.391 | | 72 | S | 0.659 | S | -0.77 | S |
| >6e6aee6cbda6dc27d8e8a394a664de6895003a85 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMNIFTMFSPTVGARHALARRLCFNSHLDHISPAEEYYSPQLINLYIGYEIFVRVTNMDLVTLAQLILMILRNLNLKPRKYELKDIALAAYSLGVQITKTGIPPSTLYYYLRKVGIRRRRESRPTCPSCNSNRVVKNGSSRGKAKYKCKACGRTFYDALKHRMDREQRERILKEYLNRMSMRAISRVEGKPLTTVYSLVRRVGIRAFTNLTILKGELKNFTAKFTVFDEFWTYFRVRHGVMREDLWIWTALADGVPFYEFGDRSYGTFRLGWLPRSEVNYTDYYCVYQVLDNRVAGKKYTYLVESHNSWCRLVRLARDTKAVTRSGRMAEYSLALLNVMYPHVFSRERTPLNEAYLKGVQYIRENLI | 0.346 | | 21 | In | 0.949 | In | -0.11 | S |
| >36aa599d2a184d81acdf7a8d9ed3c0dc0fce319e |  | |  |  |  |  |  |  |
| MVVEGDCLSSFKRGISAPLTQHDVHKSMFIAYLRPLKKEKVSYIYKGTKNQSIDNEISKKIPCDSLTYIDAVNGLIYRGCCGWRIVHIVLHLKQTFILN | 0.287 | | 64 | S | 0.601 | In | 0.66 | In |
| >420e35f973401dd295f967d7166ecb5febff9030 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMELSKLTGDPAPFVYRVLKRLEGKKVVFRISESPMIFKAYPLDIVLSSLIHEREKELKMLSSTKDTIIKLYETSLMRNQGEKGLDFIVVNGITDTINLIGDMIDRAEWEVKNMVGVEGVERIKYWHIIEYERAISRGVSVKLITSMDSASIPSEITEIAEVKYLKIPMNARFVISDDKEILIITTDEERDMVSIYSKNRGLVKTLNEIYEYIWASI | 0.154 | | 90 | In | 0.802 | S | -0.21 | S |
| >b36f7ef4e8f683560cf83f86cfa80f464d92c62a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHAQWVVHDPGNLAQGIINTTKEIVETSATAQHTLDGFKETAKIFEQGRKYYDALKAVHDVVKGGVKVKKSIEMVADISEIYVRNYQKMLGDPNYTPDELSTISFGYAKLLSESADILQDLKNVVNVTGMSLSDAERLAIIDQSYKRLLEYRNLVQYYTDKNISVSYLRAKKKKDADRVVALYGDAEDRYW | 0.152 | | 87 | S | 0.567 | S | -0.06 | S |
| >6c957ad0eccc6c9020bf6308d97e33538c43fab6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMHWTIIGGGLQGTTIALKLKNEGLKNEALTIIDPYSSLCERFNIYTQRISMPYLRSPFVHHIHPKPFHLKQYARYHQYTSAYYGPYKRPQRDMFMHHVHDLIHQFKLNDCHIQGKVEAINKSRGKWCIKLSTGDKMITDCVVIANGYTQTPFIPEIFRNKANVKHIFADNYHASLDKDTQHVVGSGISAAHLTLKLLNEHNHQLVHLWMNKDIEIHDFDADPGWLGPKKLNYLASISSSDARMKLIEDERHSGSMPMELFLRLKKYVQSGRLVIHTSQIDDVTESYIISAGKYFEYKHILLATGFYNQLLTQPLIKNLIQNEQAPLNQSGYPSLSNELEWLNQLFVAGGLADLELGPFARNIMGGKESAERISKAYKRLNKKIS | 0.13 | | 46 | In | 0.819 | In | 1.54 | In |
| >b6f5949c59a8ba8dbb07a03a02879304a238fa73 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTAQPAHEPPRHLRFSTSGILPDNRVQMWEGHNARALLPLDIRTIDDRPMQASETNLHLPSMRMASVFGTSQFVERSESFISENPTGVVAIFFATEGEAVFFHRGGHVALRPGQAIVYDADRPFLRGFNNRFRELVLTIPKQRYLEIVGSKGPELPAIFEFGATGTANEQALARLVQESLHRIESGEPKHIDSSGPLGKPWSDIEHEAHGLIRNVLGDATSSEEGLISAAQRFIDINISESDLQASRIAAAVGISERQLSRIFSDSGQTIGRYVLNTRLDFAKEALSTPERDKVSVSEIGKRFGFASPSHFSRTFRERFEMTPLQWRKESQRQSFQE | 0.195 | | 38 | In | 0.823 | In | 0.96 | In |
| >81ae22c851f9a13896e75a9590071f29116a23d8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSARENILAKLKKADALPMEEPAVFDYYREKGVSWDSEAERLKHWAAAMRAVKTEIYWVTKSNWMQVFREAAEGKGLKNILLPLATEHGQIARAALAGSNIEPIVFEREIDTWKTEFFTNINAGFSGAQCGIARTGTLMLFSSPEEPRTLSLVPPVHFCLFDTSKMYNEFHNAVEGEKLVENGMPTNVFLISGPSKTADIQLTLAYGAHGPRDLVILAILPDHISPTDLEENA | 0.297 | | 72 | S | 0.639 | S | -0.22 | S |
| >ed3a4d4b45992f2eb5b43ce8b42d8271cbab26c2 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDLLYRVKTLWAALRGNHYTWPAIDITLPGNRHFHLIGSIHMGSHDMAPLPTRLLKKLKNADALIVEADVSTSDTPFANLPACEALEERISEEQLQNLQHISQEMGISPSLFSTQPLWQIAMVLQATQAQKLGLRAEYGIDYQLLQAAKQQHKPVIELEGAENQIAMLLQLPDKGLALLDDTLTHWHTNARLLQQMMSWWLNAPPQNNDITLPNTFSQSLYDVLMHQRNLAW | 0.115 | | 62 | In | 0.708 | S | -0.41 | S |
| >e44ad670f3df270c3bb86eb155b96c00436eabef |  | |  |  |  |  |  |  |
| MSETAFRQGKKRFFDTKKFPRGFAKSGDFTLAEEDILTRYGDTMLGLESGELQPENADEEHFLKVLANPELAENKLEKAWLKYTRLARGRKRFHTLNGRNKPDGVEDYTDDEPSLTEED | 0.765 | | 87 | S | 0.729 | S | -0.86 | S |
| >9ba2bccba79a59eb00fc311250dc38df174b5698 |  | |  |  |  |  |  |  |
| MGHHHHHHSHQLTDDDSQFKNNPSELTIFYPAVPRVFKNYELIISAARKLKEQSNIKFLLTISGTENAYAKYIISLAEGLDNVHFLGYLDKEKIDHCYNISDIVCFPSRLETWGLPLSEAKERGKWVLASDFPFTRETLGSYEKKAFFDSNNDDMLVKLIIDFKKGNLKKDISDANFIYRNENV | 0.425 | | 80 | S | 0.543 | S | 0.36 | In |
| >ddf5e573e397e41361b651aae7b661c36d0ccb0a |  | |  |  |  |  |  |  |
| LRQPSSIERLQAEVFVPDALTPMTPAFRRWRTTVTVQDIVGAVSQYLGPERARDSFRSFAAGRRITLDPAAPADFELLKHAEHLIASSIGAASSRLVLSLLLRKRTVSAEAALKLLDDSHAALHFNREILQTALNHVRQGIAVFNPELQLICSNRQFGEILGLPPHIIQIGIPLIEILEFLASNSIAPIDAEAHTQMRMAAYTTEGEPFIERFPDRHLVVEVRANRMPDGGLVITFSDVTPSFEAAEALERANATLERRVRERTEELTRLNSQLALAKSTAEEANISKTRFLAAASHDILQPLNAARLYATSLVERQNGGEDSRLVENIDESLQAIEEIIGALLDISRLDAGAMTPSLSNFVIGDLMRSLEIEFSPTARAKGLELTFVPCSLPVQSDRLMLRRLMQ | 0.362 | | 33 | In | 0.742 | In | -0.14 | S |
| >59f83c71cb23a9eeee7a18c2aa10a38c9de22362 |  | |  |  |  |  |  |  |
| VLMPFEIMETIKMIQEENLDIRTITMGISLRDCASSNSKETRDKIYNKITRLAANLVKVGEDIEKEFGIPIVNKRISVTPISLVAESSDEENYIKFAETLDKAADAVGVNFIGGFSALVQKGYTIGDRRLIASIPEALSSTKKVCSSVNVASTKAGINMDAVREMGHVIKKAAELSADSGGLACAKLVVFANVPEDNPFMAGAFHGVGEPECVINVGVSGPGVVKSALEKVRGADFETVSETIKKTAFKITRMGQLVAREASRRLGVAFGIVDLSLAPTPTIGDSVAHILEEMGLEKCGTHGTTAALALLNDAVKKGGTMASSSVGGLSGAFIPVSEDAGMIDAVKAGALSIEKLEAMTCVCSVGLDMIVVPGDTSEETISAIIADEAAIGVINNKTTAVRIIPAPGKKVGDIVEFGGLLGSGPVMKVSNFSSRDFINRGGRIPAPLNSLRN | 0.473 | | 85 | In | 0.974 | In | 1 | In |
| >b1ea3a4c6c77555596a34c92d006f4a3a491d79a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSQDFFERHQPMLQKALEAAAQRGYWSPFPESPSPRNYGETAAQDGQAAFEALRGKPFALDLPQASGAVGGEVSPFGFELGITYPQVAPEALVAASSKALEQWRRAGPRAWVGVSLEILQRLNRRSFEMAHAVQHTTGQAFQAGGPHAQDRGVEAVTYAWQEMSRIPGVALWEKPQGKHDPIKMEKRFTVVPRGIALVIGCSTFPTWNGYPGLFASLATGNTVIVKPHPGAILPLALTVQVAREVLGEAGFDPDVVLLAAHPAGDDTAQRLALDPAVRIVDFTGSSANGNWLEQNARQALVYTEKAGVNQVLIDSTDDLKGVARNLAFSLALYSGQMCTAPQNIYVPRDGIQTAEGRVGFDEVAAALGAALDKLAGDPAKAVELTGAVQNDATVARIGKARQLGLPVLADSKALAHPQFEQARVHTPLLLRADAGNDALGQEWFGPIAFVVATDSTAHSIELAGASVRQHGALSLSAYTTDEAVASRVQDMAEHSGVSLSLNLTGGVFVNQTAAFSDFHGTGANPAANAALSDSAFVANRFRVVQTRRHV | 0.474 | | 39 | In | 0.647 | S | 0.53 | In |
| >ecb72f51f94a13086e17d4dd31061c9f94d438b7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMITLESLEMLLSIDENELLDDLVVTLMATPQLAFFFEKYPSLKSALLNDLPHWKETLKQRLRTTQVPPELEREFSCYQRSQSIDNQAFQTRLPAIMDTLNNVESPFLTQASQLITSPERTLGQKVTSGLHALFLQRWRLSLTLQTVSLHQQLMNQEREILLDELQQRLTLSGKLEPILAENENAAGRLWDLSAAQRIQTDPRLLLDFGTFLQRQPALQKLAERLGRSRETKSILTQEAPQEAFRVRVREPATVPEQVSGVHQSDDILRLMPTELVTLGISELEYEFYRRLLEHRLLTYRLQGESWREKVTERPVVHQQNEQQPRGPFIVCVDTSGSMGGFNERCAKAFCLALMRIALADNRRCYIMLFSTGVVKYELTSEDGLEQAIRFLSQSFRGGTDMAACLSALLDKMDDALWHDADAVVISDFIAQRLPDEVVNKVKSRQKQLQHRFHAVAMSDHGKPGIMHIFDHIWRFDTGLKSRLMRRWQHGKAY | 0.202 | | 33 | In | 0.871 | In | -0.17 | S |
| >7bbfec5a5569beb62d05301c25e5cacb3f7fe4ce |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKQLLAAFYGDDFTGSTENLAQFCRHGLRGRLFFTSSNREAILEMASELDVVGLAGTARGLAPSAMTEEVDPALALLDTLSPRLKQFKVCSTFDSSPTVGSIGHVMDLARRRWPECALPILPATPAFGRYTAFSHLFTRYENEICRLDQNPAMAYHPSTPMGEADLRRHLMAQTAIPPAAVTLLDYQQPDGGWQCLASAVEEQRFVVMDATQAAEIHHAAKLILKLAERHPTLAVAAQGLADALGGLVTRDMEQREPLPTTYPGVDRLLVLSGSCSPQTRKQLAHMEAQGGCIVAISPMEALRSPSALSERLAQEVMEAFTQSQTVGIATTFQDTDLVDGLASDRLSLAVGEAYALLAQHLRRETAIPRIVFAGGDTSSHAMRRIGADALELVAFDEAQGGHLCRLIAPGSPIEGLEVVLKGGQIGGEDFFSRAQQGTSPRV | 0.251 | | 27 | In | 0.648 | In | -0.25 | S |
| >87edf5f8eb0af211c270f26ead2bb847188f622e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKPFVPIPVVDSSLYLFGGHQRTVPGGWQFFEQKHQAFELMCVTAGHQTTEIKNLATYTYGPGDAMIISPGTLHTNKNSSDTEEMTYICFHFNIESLELKSEMLSSMVNAVIPADQSIAQAAVKVATKVVTYSADHQLTKEQANLKIEIAVLEFFFALTENLKAHVQEKGQKYTESEAKTGRMIATLIKKAIEKKHVPVFSFTDICRKVGVSSGYGHRTFKKVYGVTPLHYIENQKYNKAKRLLGSPEYSIEDIADLMGASSTSNFSKQFKKWSGITPSKYQRQLKQKRRVRTVKESGYFE | 0.343 | | 90 | In | 0.765 | In | 1.44 | In |
| >0a8abd2a346a220ae3affc4878573e7881d01bfc |  | |  |  |  |  |  |  |
| MPRMLDKDGCPTVEITCTKQVVGTCKFSFIAVNADGETPVKGAQTVANTVGYSVTCRKDGTFSMKDDNKNNIFGLTGIKCDWKGY | 0.538 | | 98 | In | 0.584 | In | 1.73 | In |
| >9c825f531cb4b36f5365613cb668a24827148b71 |  | |  |  |  |  |  |  |
| MEEEPYKRKLTKAEKKAKYRTDYAEPLKSRREVLKAIMNGPESERERKVRAKNREFFNEDYRSGVNIYGMAVDMMKAMPDRGKTSGQSLAVWYLEDFGVWLKESGQETELRQKYLTGTIQINALDVCTIGQKQLLSEIFDITKEKFTEDITQLLDAAIKKQDFSVAADMAIQYNLLRDHHFEHLVLPLMLSGKDQTAYKLISNNERMQQQLVEFFDRMVGISVVAVEEMLKPYKETKIMTIPMEKLTGKTLDKLISTIINKNTHEYNFSRELSKFAKNHSQNGNLKALKFNISERYEKGKSDDNYFQHMVETFTKAEDVREPILFYLWSSNDTEKQIDAICFAIYLGIASSSSYQLPNVMRDFFRQPDSKLREAKELLVRRKTLQVPLNGEQLFVFENERRTQIHMVKTESEMNYLCSEIKSLSDEPAPVYVGFDSEWKPSNLTAVHDSKIAIIQLFFKNCVWLVDCVELEKANMADDWWQKFASRLFGDSPVKVVGFDMRNDLDAMATIPALKSSMKIEDTKNAFDLKRLAENVCDIDMEILELPKKTFKLADLTHYLLGLELDKTEQCSNWQCRPLRKKQIVYAALDAVVVVETFKKILSIVEEKNKDADIEKIVRESNVMAPKKDKGHKSYRKLKTIPWLELYDILRSHRNPTRSPQRPHDIKVIVDTMLIGFGKNLRRVGIDVILPKDVSDFRKYLKEIERVGGEHLRHIITVPSKSYEALKMDYDNYTIAIPELNNMSPVDQLIEFFDLFNVDIRPEDVYPRCTECNSRLQIKFPGPVLHFLHQYCVIHVQNVYRADMSEFPLEEWWNRMLHINPDDYDGVKVEMSRPSPTSKWIVATVPTGCLHITRQTALHTNLPDGIEVRIHKVPDDEFKRRNLSFYVCGECGTVACDGRGNQASESTSQEC | 0.401 | | 80 | S | 0.987 | In | 0.11 | In |
| >4c433634942610f5220afa961c8b6944458a1082 |  | |  |  |  |  |  |  |
| MLTCIQPSSSSIGGFGKADDNVRILLMASVRNEFGDTSIFSRLGVTALGQHYVLVTKKKMFGGYTTHMITANMRNRPFISIPFKVSSGAQSIEESRDLISRLTTVLGRPGMFSFDDPPIGSQFPVGKELIQLDEVPVGVHDRQDKYLEKGDEVFCEVNVSGVKFYHSGIYAGDGMCYHFVCDAQESESFADALAVFSGASAHVVYDTWFEFVYALVEVSDVPPKIFRASHPLICRSGEQVVKYAEHLQRELENYDIRRCNCQHFSSECSTGVPFSYDMTSNFKYLACTVLKPTSTVVNAMTRPNRDRSSFASSSTSS | 0.29 | | 44 | In | 0.977 | In | 0.98 | In |
| >3615509948e1769b5ac8a49ef0dcb66586157cfa |  | |  |  |  |  |  |  |
| MDGTSRVEYITPPVNICGDIRSRYGDVLDIFKTCGWPFEQKYVFLGNLIDGGKFSLETLVILLCCKICYPQNFVILRGFYEHELVKSDRSFIGELRVRFPDSNKWQALNAIIKSLLKRLPVMTVLNRKLLCVNGMVTSNIKNEKNVVSVKNGNMFENHNTRVEVQFLDIDIPSPVTPNKIDEESKIIKELLKSMDMSMMINSNNVVREGYRFTLKNQLITITSGTKLQKNYNNRGVVMMMDRHNKVNFKSIQGIDGEDRTDLASVPLRC | 0.427 | | 46 | In | 0.98 | In | 2.13 | In |
| >2c8b61b4bbd78279aef824a7bd599bccb6b77011 |  | |  |  |  |  |  |  |
| GPGSMPPAQKTAKKAAPKDAKATKVVKVTTRKSYTRPQFRRPHTYRKPAMAKPSNRVTVESKDIAAFNVIRYPLTTDKAMKKIEENNTLTFIVDSRANKTEIKKAMRKLYQVKAVKVNTLIRPDGLKKAYIRLSAAHDALDTANKIGLV | 0.725 | | 90 | In | 0.679 | In | -2.59 | S |
| >eb45ac582ebd2c7bad21fd48d64c6aa5c474a786 |  | |  |  |  |  |  |  |
| MMKVIKKDGTLEEYNEQKIINAIDKSAQRENFTFSQDEYGMICNRVLNEVDEEDFENDEVPVGFIHNIVEKTLLDLFPKVGYQYQQYRNYKLDFVHMMDTVYEKSQSIRYIGDKS | 0.14 | | 86 | In | 0.641 | In | -1.97 | S |
| >46f987e2aeb244892b79cc5774478ee3beb8088c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKAIQEYLETKQKLLAEHSLFRDLKLGDSKLEDFARMASSVGFWVMSFQDLLRINLSFITDEEYYQFIRKHLMEDIGHDKWFLYDLKALNTEQPNLQVLYNQFHTPVRDATFLLMSEVFRANNDYERITLILALESAGHVFFECVADFIKENNCDTSLKYFSSHHLGVEKEHEIFETGMQDLIGNIQLNHEQKIHHLKMIDRIYEAFDLMFDGLAIALSPSAALMVAVS | 0.174 | | 93 | In | 0.676 | S | -1.95 | S |
| >2027f769be82829b64419e28e42ef0646fe012fa |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGDVRQLRDKQPENEKITINLGFVDLGRIDLMVQEGFYSNRSDLIRTAIRNQLDTHTGVVDQTLERHTMELGLRDYTVADLEALRDAGEVLHVKVVGLARISAEVTPELALQTIGSITVLGALQANKDVKTALADRIK | 0.109 | | 70 | In | 0.836 | S | -1.02 | S |
| >81fd7ac471789383acf755018819f35c6bf4ec17 |  | |  |  |  |  |  |  |
| MTDVRDLYHIAEAILDDAERLFIQGIGSAPTTFKNGGDFATDMDLKIEQYLRTQLVMMTGIPVFGEEYGGKLGTPMWVVDPIDGTANYAAGNP | 0.247 | | 18 | S | 0.611 | S | -1.82 | S |
| >e8fb9e401de56b757d62397cc43eb955a2e93eb4 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMELNYSLVQKVVTRFPPVPQQQLLLASLPAGSLRCITCAVVGNGGILNNSHMGQEIDSHDYVFRLSGALIKGYEQDVGTRTSFYGFTAFSLTQSLLILGNRGFKNVPLGKDVRYLHFLEGTRDYEWLEALLMNQTVMSKNLFWFRHRPQEAFREALHMDRYLLLHPDFLRYMKNRFLRSKTLDGAHWRIYRPTTGALLLLTALQLCDQVSAYGLITEGHERFSDHYYDTSWKRLIFYINHDFKLEREVWKRLHDEGIIRLYQRPGPGTAKAKN | 0.344 | | 7 | In | 0.675 | In | 1.35 | In |
| >7b8bedd4b9405a8c0cf4f24a6089d94613996067 |  | |  |  |  |  |  |  |
| MTTCAPAVPAQLDVAGDLLALLRDTTTEPRPDIQLEALTLAVAADLPVLLWGEPGIGKTAALTQLATALDLPLTTVIASVHEPSDFSGLPVVGDDPAEQGVPMAPPDWAVRLVRAGRGLLFLDELSTAPPAVQAALLRLVLERRIGALRLPPGVRIVAAANPRSSAADGWELSPPLANRFVHLQWTHDQDVVVRGLGGTWPRAALPSLDPGGLDGAVRYARRAVCAFLTARPGLVHRLPSGETRRGGAWPSPRSWEMTLCLIAFATAAGSSREVLSLLVRGTVGDGPGLELMASLDRMDLPDPETLLADPAGAVLPERGDLRQAVLDGVVAAVRKRPEKSRWDSAWALLARAMETGAPDVVVVPATTLATLRQQDWDIPASIERLAGAMSLSRRADRAADRAAARLAGTARTSGLEHHHHHH | 0.558 | | 28 | In | 0.841 | In | 0.45 | In |
| >fc5eb732066ef19e19d106e36d1509717ff2eec6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDTQPEDDDVLMALDPLEVVEHVLSAENLTFDRTEDGDLAFALKGDWKDYELWFAWRPEADCLQLCLSLDLRAPKSKRANAYELLALINQRVWLGHFEVWTEDGEVVFRHALALPSGERPTMAQAASMIDAAVEAADRFFPAFEFLLQGAKTPDQAMAACMFETVGQA | 0.177 | | 96 | In | 0.713 | S | -3.41 | S |
| >e950a94ddcc637e1c5589ddff7f996d038211b36 |  | |  |  |  |  |  |  |
| MLNIEIYEEAMCCSTGVCGPEPDETLIKTNQINEYLKQNQIEVQRYNMNNNPNEFIQNKEVIRLIQEKGDEVLPITFIEGNIAKTGAYITQEEADEIITVNQMRNGGCCGGDGCC | 0.477 | | 80 | In | 0.601 | S | -1.67 | S |
| >478e50cbce3375e9bb430677bd51c4826623bd1b |  | |  |  |  |  |  |  |
| MAHHHHHHMSPSYSCSMSIPSPSPAFSPFTQQPSPPLSPAIVACCPARGTEQKAVQRQRSESVPPSAVAHKLLSTGCTAEPDMPVVHPAARRRSSYVSGSTMLGSFCLTEDGVESSDGGATATADTPLMRSNTSRATAFSSAAAAAAMTTTSATPYTLPSPTTTQRCRSASAMMRYASTFLSKDGSSVDASAAAAEAALLSTPSQSTTHPPCALSSAVVSRMQNDRDKDNGEVAATVPAVAVTPAMPSTYHLLTAPATGARSDDLSWFLPSLPDGHAPSFLAEAPQHLRAYLAAECDRAMRAVQRQELWAGQTAAGREELRRQVEGHIVAKHHNRAEGLRKDASAWRLPLEALWPEQPLRSNKAVLVLDDGKSSARSAADTTIAVAGDALPSLALFPRLMSTSLPCMEFRRGTATQPEVHTSTPTRTEPAGDEQDAVAVGSPVEKGDVEDSAIFEKSGLAESQGRPSRSEAAASVPLPPGAPRSRASVSFLGSSLSYEAALLDAAQEMSG | 0.298 | | 81 | In | 0.98 | In | 1.41 | In |
| >8a2720ba845fb22bb8db85992aae92e78028e234 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMFISKIIISEDFLGIKEEMINNFGIKKLRFFIPQNEFLLDDARAVEKESYIAETEEKIIVLMADSYRIEAQNFLLKLLEEPPKNIKFLIVIPSKNLLLPTIKSRLICEKRKVEKEVKKLDLDLKRMDLRMLFDFLQKNENLDKNELMDQIALLAKECVKYKDFNAEELEFFYESYELAKLNSKSGVLLATLLLNYYTKK | 0.156 | | 100 | In | 0.647 | In | -0.47 | S |
| >87c5416e088d54fefff594093ec9e00b55ec8a5a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLFSFITVAHMSENIEQDKAPDGWSADLSVGVDIIDEDHQAFFRLAELLRDVIEGPEEGNDYLIETAINVLEEYVEGHFLREEMAMAAVNYPYLAEHLAAHEAFAAKAHQIAQEYRNGNKDIAGTISGLVERWIVSHIQTIDKQYCGYLTNDNVDSRPLIYLSDEDGNELEV | 0.211 | | 88 | S | 0.808 | S | -3.69 | S |
| >458263457065077028e478a4c83d11b0bdc08a73 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKTLCIAISAILMSTHAMADDNSYIRNGNIYSNQGQYFVGAGVATGSKFFKDQDDQTGVYFNGGYHGEDFNADLGGINYRFFGNNDSAINFSAYMVANPGFDTDSEDILKGMKERDFSGDLGLNADFHLGQGTLSAKFQHDITGAYDGYQADITYYHPMDLGFASLVPYAGAHYFSNEFVNYYTGVASFEATSKRPAYQSNGALAFKVGYVLDIPITENLSLTQATAYTHLGSNMADSPIIDAKNQWLTTFGVNYSF | 0.243 | | 28 | In | 0.513 | S | 0.05 | In |
| >b14ccf8d33b3a7fc5e7e307f6ce80ae9be1c8fe0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTAPKTTGKPTGRSAGKREPCRPRRSRRPAAETRQEILRAAEELFRQRGYQQVAMADIAAELEMSPANVFKHFHSKTALVDAIATAHLEKLMAGLADLELLPSPQMKLLQMAEQLLTKLLQDVCDNPHLFKMIVLTTDLELTAADLYREKICAIFETIVLEGVATGDFFVTDPHHTASVIATALEGVIHPLSITREKPEILHIRCRDLIGLVTTALQNPLAK | 0.183 | | 79 | In | 0.537 | S | -0.35 | S |
| >9f18f9784f2238dd5a54ee66cf46c3214bbde960 |  | |  |  |  |  |  |  |
| MFIEQMFPFINESVRVHQLPEGGVLEIDYLRDNVSISDFEYLDLNKTAYELCMRMDGQKTAEQILAEQCAVYDESPEDHKDWYYDMLNMLQNKQVIQLGNRASRHTITTSGSNEFPMPLHATFELTHRCNLKCAHCYLESSPEALGTVSIEQFKKTADMLFDNGVLTCEITGGEIFVHPNANEILDYVCKKFKKVAVLTNGTLMRKESLELLKTYKQKIIVGISLDSVNSEVHDSFRGRKGSFAQTCKTIKLLSDHGIFVRVAMSVFEKNMWEIHDMAQKVRDLGAKAFSYNWVDDFGRGRDIVHPTKDAEQHRKFMEYEQHVIDEFKDLIPIIPYERKRAANCGAGWKSIVISPFGEVRPCALFPKEFSLGNIFHDSYESIFNSPLVHKLWQAQAPRFSEHCMKDKCPFSGYCGGCYLKGLNSNKYHRKNICSWAKNEQLEDVVQLILEHHHHHH | 0.412 | | 82 | In | 0.954 | In | 0 | S |
| >53f8b6d9476e3c9b6db6344d5b40b3d43912dfc2 |  | |  |  |  |  |  |  |
| MALPPYDPNFTLAFSYGRRDNVFENDPEHDESASAAIVAVELISSARLALKLDSVRTEYSAQYLVDKAGSRNLRRRRKLTVKDCLNFALKKGGIPRAEDWPPLGSESKTPSSYEPALVSMKGEVIEPKDMDEVPELLVHQSAVGAKLHVFTPHIELQQDVSAIAYARYVGLRDGIVVGTEKIQGKSMAIVKVWYKKKFVVVKVALSRMFYLAGVGPSVLLVDFCVPRLSID | 0.56 | | 82 | S | 0.545 | In | 1.19 | In |
| >00257f04072870bbf5f36b8972ba52a319457e38 |  | |  |  |  |  |  |  |
| MFDLSSIVDNEQTSDALEDVVMGLIINAGQARSLAYNALKQAKAGDFAQADELMAQSRSALNDAHLVQTQLIEADQGEGKTKVTLVLVHAQDHLMNAMLARELITELIELHQKIQ | 0.287 | | 97 | S | 0.802 | S | -2.76 | S |
| >db5a8a6db73168fb185dcdfbe8cc11ba015b35c8 |  | |  |  |  |  |  |  |
| SLSDAEGGMQSKMRSYQAKVRQGALVCFLSTIKSIEKKVLYGYWSAFIPDTPELGSPQSVSLMTLTLKDPSPKTRACALQVLSAILEGSKQFLSVAEDTSDHRRAFTPFSVMIACSIRELHRCLLLALVAESSSQTVTQIIKCLANLVSNAPYDRLKLSLLTKVWNQIKPYIRHKDVNVRVSSLTLLGAIVSTHAPLPEVQLLLQQPCSSGLGNSNSATPHLSPPDWWKKAPAGPSLEETSVSSPKGSSEPCWLIRLCISIVVLPKEDSCSGSDAGSAAGSTYEPSPMRLEALQVLTLLARGYFSMTQAYLMELGEVICKCMGEADPSIQLHGAKLLEELGTGLIQQYKPDSTAAPDQRAPVFLVVMFWTMMLNGPLPRALQNSEHPTLQASACDALSSILPEAFSNLPNDRQMLCITVLLGLNDSKNRLVKAATSRALGVYVLFPCLRQDVIFVADAANAILMSLEDKSLNVRAKAAWSLGNLTDTLIVNMETPDPSFQEEFSGLLLLKMLRSAIEASKDKDKVKSNAVRALGNLLHFLQPSHIEKPTFAEIIEESIQALISTVLTEAAMKVRWNACYAMGNVFKNPALPLGTAPWTSQAYNALTSVVTSCKNFKVRIRSAAALSVPGKREQYGSVDQYARIWNALVTALQKSEDTIDFLEFKYCVSLRTQICQALIHLLSLASASDLPCMKETLELSGNMVQSYILQFLKSGAEGDDTGAPHSPQERDQMVRMALKHMGSIQAPTGDTARRAIMGFLEEILAVCFDSSGSQGALPGLTN | 0.507 | | 45 | In | 0.666 | In | 1.22 | In |
| >5c0e27f15dabafe8a1de0a2a5a0f9fa47ae6805e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMFVMALGKETEMGLKELFKANAEDFMSLMLVAEKLEQLGKKEEAKALREKALVELGHAKAIFETLLKNQELRGIVGEMAKEEQEQHVSEYNKVAMTAKQEGHEDIEKMLCSFADQEAKIAETIAKVSKVLNEMAKEEQEQHVSEYNKVAMTAKQEGHEDIEKMLCAFAEQEAKISETIKSVAKAL | 0.362 | | 100 | S | 0.747 | S | -2.52 | S |
| >c374ad35c1fd3e23bd420462c9aafedec3be0dca |  | |  |  |  |  |  |  |
| MKQSHFFAHLSRLKLINRWPLMRNVRTENVSEHSLQVAMVAHALAAIKNRKFGGNVNAERIALLAMYHDASEVLTGDLPTPVKYFNAQIAQEYKAIEKIAQQKLVDMVPEELRDIFAPLIDEHAYSDEEKSLVKQADALCAYLKCLEELAAGNNEFLLAKTRLEATLEARRSQEMDYFMEVFVPSFHLSLDEISQDSPL | 0.43 | | 91 | S | 0.733 | S | -1.16 | S |
| >f6b3b5daf9bd569236af8d0693363b5bcce30048 |  | |  |  |  |  |  |  |
| ESNPADRVAIRASNMAEFQNCGGTMVTDQWVMTAAHCVVMGQGSNEASYYVTQPGELSITARVHNLHDTSIDNYYTVSHVVVHPNYTRISKADVDSKGNVKPIQTALDNDIALLYITRPVTGVNVADLATKEDMISIEARLAADWNDNYDTNQRTENVQVYGWGTTTPMASEASPLLQTTQIGFLPIDKCYERLEIGNSYPGLVNSRTNATKICTVPTFNRILEP | 0.513 | | 24 | In | 0.632 | In | -0.01 | S |
| >1979e6a4449d41be02000a076bfa4c637c9dab90 |  | |  |  |  |  |  |  |
| MNTKIHLVKLPVHIALSVPAKNKPRKGWELTDPSFRHRAVMALFPDTDSPLPRKSVDILFRFEQLAGQPPFFLIQSTVAPKQVDNLDSEVQHRTVSLRRFSPKSAVRFRISINGIRRQTTEHNGRKRITTSPVPFDSDEKAPSHITRMTPWVQKKLNGALRNVEILNHQREVIGTKHRGGKAASMTIQIDTVDGFGIVEDPELLNELILHGVGRAKAYGCGLLSVSEI | 0.302 | | 68 | In | 0.53 | In | 1.34 | In |
| >707f24d684a7963fee8f988445acc46b226521dc |  | |  |  |  |  |  |  |
| MTTYRWCGEKLLDHQEHIVAQGSRGALSIANQKIPVDVARPTPWTWQCNAKDLQATAHTHAGMKSITVECAGRKYVMRRAGWRRRELVDSSGHCLAQINGLSIDAGSAIPTTDLVFAVYVARLIDAPFDVRI | 0.395 | | 22 | In | 0.649 | In | 1.09 | In |
| >273a6aad187e03158c9b6e846c2e1854b540910a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRFYKEANVMTMIVVSDIHGHLETMDRVRAMQAKYPHTLTVYLGDYIDGYPYGGRVLTQIREQVQASQAIAIRGNHDQMLLDYLADKDNPWFINGGKATLHQMVQDYAPAKARKSNLQQAALTYMSPLIQFIAEMPTAVEFDKLLLIHAGLDLSLEDPLKETTPFNRMWVREPYIYNMDETKNREHPIFAHNPIAKTIVTGHTPTALIYGDYENNVKPSLPPTSFSDGYPKCPVKVIQYPEESPRYFIDGGNHMTYKENYGNICVFDETKGVMIDSDQGINAN | 0.115 | | 51 | In | 0.665 | In | -0.05 | S |
| >838d0eecaccc0ec802d2b5adfb5ba4622afccc0e |  | |  |  |  |  |  |  |
| MPDDEEKLQLLADVERLKKILRQKDEMLEEMEDDLKNQGKPCSSKLSLEERAQELSEQLRDLHVEMDGKNATILDRDALIDSLRSEIDKLEKINKEFANGSVIPEHDDSNSFGESEMLRISEDCQKYKETATALYERNAELEKEAVNLKDEIESMMDHIRDLKNHMETRDEEIARLEGELFDERNSHEGKLAARGNSMFSEVIDAERKVEEDLKVLHGENRALKGMVKRLRMEVEEVEERLRSSTKRFNVTRMTTSDIDVKEMRRLRDRVCHLETERVHLWERMFIKMRSIPKREVGALITGYFKSFELSIASVKGGFDGLMKDNEKYVTIIRGLQQEVENLKADIVQLQFDNKCAHRKAAPVVNKDFEHPLLAAPLKTLNNGRPSFFIKPKNVEPMPQLGHSLSSIAVTPQKPAAKFTTRSSIKDDTSEWAERRMKAQAEKKLATPTPRYNYIKLSEPVPKFKPAVLQMPSTSETKEN | 0.58 | | 94 | In | 0.983 | In | -0.35 | S |
| >1b9548cbeadc0f2ed58b5fc409a17a3ed3575c23 |  | |  |  |  |  |  |  |
| MYVFSFSVLLAVLTMPMLPPVANALKRSETGAEETSEQDAVKRTKVLDMAQKVTRQIISSANAPGAIGPYSQAVRAGNTIYLSGSLGLDPKTGDLKEGVVEQTHQSLKNLGEVLKAAGADYGNVVKTTVLLQNIADFAAVNEVYGQYFKSPYPARAAYQVAALPKGGLVEIEAVAIAGEIEEVKN | 0.512 | | 75 | S | 0.629 | S | 0.67 | In |
| >cb67f229106548e929d30fe3b1d1ccbe659befdb |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMYKVGIVLFDDFTDVDFFLMNDLLGRTSDSWTVRILGTKPEHHSQLGMTVKTDGHVSEVKEQDVVLITSGYRGIPAALQDENFMSALKLDPSRQLIGSICAGSFVLHELGLLKGKKLTTNPDAKAVLQGMGGDVQDLPLVIEGNIATAGGCLSLLYLVGWLAERLFDSVKRKQIQNQLIPAGQMEIFETLISETIQSAESAYEYRSACESDAESLVV | 0.148 | | 69 | In | 0.772 | S | -0.72 | S |
| >99ce3c7f684e4c42e6860e09cff8ae9923ff5d6c |  | |  |  |  |  |  |  |
| MSNEDVAEDVSQVTDFHFHTCRKFRLFSSKSDGYSQNEINIRNRVATSSQLGVTFVTVNSNQLSCFHTKSLLGYKITRENMNVEVTDLPIKTIRLHGVVLINDMGVNSDGTVLGVLHTKNNDVSVDVFDIKKICTSSSIEPFKPLCTTRVGTEQINQGSCLEWNPAFPDTFAASSTDRSILVAKINVQSPANQKLVGIGKFGAVTTAISWSPKGKQLTIGDSLGKIVQLKPELEVVRSQHGPENKPNYGRITGLCWLATTEWLVSLENGTDQDAYLMRCKKDKPTEWIQFHELSYSSSKWPLPPQLFPATQLLVDWNVVIVGNSKTSEISTVGKRDDWQTWVPVEGESIYLPTTSSGKDTVPIGVAVDRSMTDEVLLNPDGSQRHRPSPLVLCLTNDGILTAHHIISTFAAHIPCQMSSQNLAINDLKKLQFDSQKPISAPPSDQTPVTKPSTVFGQKPEAETLKSSLVGSPSSVQTPKPSSSLFNPKSIASNIETSQLTESKPSTPAAPSSQPKIASTPKSEAIPKISDKTLEHKKAELIATKKQVLIERMDKINDSMAGAKDATMKLSFAVGKVKTTIMECADVVRASLGDSKEVMDELKNLILSIERMSDRTQHTVKEMDFEIDEKMELVAGVEDGNQVLEKLRNMSETEKLMRFNKLETAADLLNGKYEECSDLIKKLRMSLSEKESLRKQAILSPLRLSSNLNQLRSGSETELALKVMRNVSKIIMDTREQIQRTELEFVRFQRDVKFQNFKKGKENLNFTQPLEMSSLDGDAPQGKSLTDAESIKVRQALVNQIQKRGIVKTRNVIVESYKKSENSAAMKNDLLDTSNLSNAILKLSMTPRRVMPSSSLFSASPSTPSTKSDAATQADEPPIVKTVVVTVESPAKPIASAPAVSSPLIKLNTTTATTTMTTPKVTVPKEEANKTQDQKPIISTPASSSIFSSGSLFGTKTQTPLVSKEESTLTTGVPSLINSSLSISPQEIEKASSKVETLNKTEEVKDEKSENEVTPDLKSEEPKSLETKVKEEPKPAVQTPVKEEETGSNIQKTPSFSFNSTTTPKSTSSTSSIFGGGLKTQTPSSSNSTNIFGARTTTTATPTPASNTSSIFGGGSKAASSPFGSFGQAGCQPAKTSNPATSTASVTFSFNTGATSASAKPAGFGSFGAGASAKPSSVFGGSVTAPTVPNVDDGMEDDSMANGGGSGGFMSGLGNARTSNTSGGNNPFAPKTSTGTSASSSSWLFGGGGNQQQQQQQKPSFSFNTAGSSAQQASAPATGTSSVFGGAPKFGSQPAFGAKPFGGGANAGLSKNASIFGGATSSTTNNPATGGFAQFASGQKTSSLFGGGATPQTNTSIFGGGANTTPAPTSSVFGGGASANANKPTSFTSWR | 0.54 | | 96 | In | 0.983 | In | 2.59 | In |
| >8079ecc21978f2abba2884e5ed38245b7079c6f7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSRRNRRSAAALVYDAQSGDPAPRVIAKGYGMLAEMIVQRAKEAGLYVHEAPEMVSLLMQVDLDARIPPQLYQAVAELLAWLHRLESGAENEPPQGANAAAQDVIDVVATEVEGGTAAR | 0.14 | | 65 | In | 0.575 | S | -0.78 | S |
| >9e269ad88f604e8593a06440e8be452caf57729d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSFMIIEEIKERALNLLSEKEEDFKVIDFSFALPYSYVLIESNGKKALGVAMTLLEEYRGHGNRKDLNINKNLEEFINMADSFDIVERTLGVAAINAVSQYYFNFEANGKDAAELVLNRDDIKKIAFVGNMIPVVNMLKKSEKFDIYVFERSPSLLMDGVLSDAFEYRLLPEMDAVFISGTTLLNDTLDFVLDRAKNAKLKILVGPTAQSLPELFKGFGITHIASTKIIDVDKALLYLKFASSSMLFKGASKKYTMEVE | 0.217 | | 88 | In | 0.526 | S | -0.29 | S |
| >5bd34710043e7e7752aa2084df5b7185b888739b |  | |  |  |  |  |  |  |
| MPGGMGFPSDPALLPRVQAHIRKFPGTKYFKPELVAYDLQQEHPEYQRKNHKVFMGMVREALERIQLVAKEENDEKMEEKEAMDDVQEIPIVKALETRKRKAPAAGRKSTGQAAAAKEVVLSDDSEDERAARQLEKQIESLKTNRANKTVLNLYTKKSAPSTPVSTPKNQATKKPPGASAAPPALPRGLGAVSDTISPRESHVKFEHIGGADRQFLEVCRLAMHLKRPKTFATLGVDPPRGFIVHGPPGCGKTMFAQAVAGELAIPMLQLAATELVSGVSGETEEKIRRLFDTAKQNSPCILILDDIDAIAPRRETAQREMERRVVSQLCSSLDELVLPPREKPLKDQLTFGDDGSVAIIGDSPTAAGAGVLVIGTTSRPDAVDGGLRRAGRFENEISLGIPDETAREKILEKICKVNLAGDVTLKQIAKLTPGYVGADLQALIREAAKVAIDRVFDTIVVKNEGHKNLTVEQIKEELDRVLAWLQGDDDPSALSELNGGLQISFEDFERALSTIQPAAKREGFATVPDVSWDDIGALVEVRKQLEWSILYPIKRADDFAALGIDCRPQGILLCGPPGCGKTLLAKAVANETGMNFISVKGPELLNMYVGESERAVRTVFQRARDSQPCVIFFDEIDALVPKRSHGESSGGARLVNQLLTEMDGVEGRQKVFLIGATNRPDIVDAAILRPGRLDKILFVDFPSVEDRVDILRKSTKNGTRPMLGEDIDFHEIAQLPELAGFTGADLAALIHESSLLALQARVLENDESVKGVGMRHFREAASRIRPSVTEADRKKYEHMKKIYGLKQATPPSV | 0.548 | | 85 | In | 0.753 | In | 0.47 | In |
| >02fc25ea3e1e1026acf5743c93851e18e23d149e |  | |  |  |  |  |  |  |
| MKKQIISLGALAVASSLFTWDNKADAIVTKDYSGKSQVNAGSKNGTLIDSRYLNSALYYLEDYIIYAIGLTNKYEYGDNIYKEAKDRLLEKVLREDQYLLERKKSQYEDYKQWYANYKKENPRTDLKMANFHKYNLEELSMKEYNELQDALKRALDDFHREVKDIKDKNSDLKTFNAAEEDKATKEVYDLVSEIDTLVVSYYGDKDYGEHAKELRAKLDLILGDTDNPHKITNERIKKEMIDDLNSIIDDFFMETKQNRPKSITKYNPTTHNYKTNSDNKPNFDKLVEETKKAVKEADDSWKKKTVKKYGETETKSPVVKEEKKVEEPQAPKVDNQQEVKTTAGKAEETTQPVAQPLVKIPQGTITGEIVKGPEYPTMENKTVQGEIVQGPDFLTMEQSGPSLSNNYTNPPLTNPILEGLEGSSSKLEIKPQGTESTLKGTQGESSDIEVKPQATETTEASQYGPRPQFNKTPKYVKYRDAGTGIREYNDGTFGYEARPRFNKPSETNAYNVTTHANGQVSYGARPTYKKPSETNAYNVTTHANGQVSYGARPTQNKPSKTNAYNVTTHGNGQVSYGARPTQNKPSKTNAYNVTTHANGQVSYGARPTYKKPSKTNAYNVTTHADGTATYGPRVTK | 0.627 | | 94 | S | 0.59 | S | 1.37 | In |
| >872a53e30ff58b5369129dba004fc5c13c8131c4 |  | |  |  |  |  |  |  |
| MLRLAVANQKRSLFLSVPCSSQQDHYKVLGLAQSASQKDIKSAYYKLSKQHHPDTNPTNKEEAAKKFHQVAMAYEILSSEDKRKAYDMTRIRTSPMPNDPSSFSNRYRRRTSSNLKQYTDIDIDYKDFEHFQRSTRRRPQYHSHFDMPNEFYAEFGGFKKRVFKSEYEEAQEKHGSMYKDGRAAQREMEELRRQVEREQAAHQARYPIPTFEQIMRDKRAKEASEARQ | 0.46 | | 51 | In | 0.891 | In | 0.66 | In |
| >cbecd7edfe7cbb6646101c8c8a994851581fab23 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMENQRELTVLLIEDDKFACEEIRNYIDQLDDMRLLGITDDSNKALDMVKYCVPDAIILDLELHEGGGNGLFFLSKLHDLALEKLPYILITTQNTSNVTLEAARQLGADFIITKYERDYSAQKPVELLRMMRNAIQKHSSPDTTVPTLTPAEQNRKLTIRIHRELDAVGISPKAIGYEYLTEAIIIATKEAVPNLPKLIADNHHGKTPASIERAMQNAINKAWSNGNPEDLARNYTAVINYERGVPTLTEFIYHYANKFRNEL | 0.241 | | 62 | In | 0.709 | In | -0.64 | S |
| >00371371d84342b1530a42efaa2ddc466b8b741a |  | |  |  |  |  |  |  |
| MNPSNMNVLEQAELVIDGGDPGDEQQVAHEEIVDDGSTEMVVDHHHHPQLRGNPMHHHHYDNRQSAPAYQVPQQQSQSIRRGVGRPMAPRPQSYPHNMDMVQKLQNKNVYMPAQQRPQTRISPAGARIVSFAGRKRDNSDGLPPGVKKMNMPAARPHQQQTQQQSHLQQGQQSQKNLQPVKVVRLASSVARANPTASEHALIEIENNIKQTIEDAKVDTERLRELQEADFSQDEYHQYLGMLIMDLERSNEANSTLTTYYRERQRHEKTISEARENAFSARIRQLETENRKLRDSIHVMYYGKFNEAGGHNNIYRNDHMGQMMVEEPEEHVVIEGHVGNNQEGEEVPQEWIVEETVDEHRMHLEGMEADDHMVEDQQQQDEEHEDVKDKNLLAGGSGRSG | 0.282 | | 73 | In | 0.94 | In | -0.71 | S |
| >d2cad4af4334be3656660bf4e6823ae75292e79d |  | |  |  |  |  |  |  |
| MAHHHHHHMLSAATGDTQALRKEALVYQLAAARASQPETALTYTALHALTTSRLQKQESDISKEENRIRTLIDKLRCRNANLKLLLYRTPTQPLKVTATAYANPSNKWLGASDTLQCTLTAAAEAAANDPCKGLAETPDIQQNAAAEFTAAQEFPFTADDEFKAPAVTSVVRGIGDVASAAKALTDGPACAENANSMGSKTTGAGIQTQTLAELKQPQKTPVVKAKGTDHNCKEKEDEYPWGFVGAGELGGLLCAARQVTIPTQQAPSRQTGKQLAQDPAMVKIANTLTGTTPAAEAGTETKAKAAKHILEDTDSTIQKKFIDPLAEITIGFKLGDATVEGNLKDLATGGDAVATLTYLQHQKTLISKSKPEINAGQKTLSSVCSSKSNLADCSKDDKCEWKGTEKKESARLKIRKGV | 0.504 | | 95 | S | 0.959 | In | 0.64 | In |
| >b506b867b71d7897701c08c69768e5f0b5672b84 |  | |  |  |  |  |  |  |
| MPNFEKYNLSQVKTERFYQLPKYLFEDAYFKKMSAEAKIMYALLKDRFELSLQNEWVDKNNNIYFIFSNKHLCEYLGYAEQKIIKLKKELIKFNLLTQERVGLNKPNRLYLLKPNYDIEASHIKELPNSQFQNNEFGSSRTVNLSGQELPNSQSNDTDYNDTDYIKTNYNDMYDLNDRKLTYSSNHTNHSNHYYSKFNDEALKFQLLEELPQSIQSYLSNFSVSEIKLIKSVLLKAKTSFNNSIDAYYLLEDMEFEIVNVLKRFKATLIQKNETVEAMQGYLMKSLKSEFAEVHTLNKRRDHLPITSLFNQ | 0.562 | | 68 | In | 0.847 | In | 0.93 | In |
| >fe544a1786eaf1480e000d7556f1a0c8b62e34f0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLYIIPIICYNLLEKHGILMRFIGMEYMKVKEAVEKWGLTDRRVRILCEQERINGVIKKGRSYLIPADAEKPIDGRKLRVKRPVYAMNL | 0.106 | | 94 | In | 0.604 | In | -0.72 | S |
| >188da63fcdddae3bf9add5dd854033fa30b2cfa4 |  | |  |  |  |  |  |  |
| MRKKRIMIIGPSRSGKTSLANLINGLTGPTRRTQNMVYGEKTLDVPGVYLESPWMHKHLIVAAQDASHVLMLVDQSSFLESYPPGFAKTFRVPVIGVITRSGVKPENNDWCIRQLKKAGVREPYYNINLAEEASLVELMEILK | 0.715 | | 45 | S | 0.647 | In | 1.82 | In |
| >63e89f260860a37be01178293398a1d527c583b8 |  | |  |  |  |  |  |  |
| MGHHHHHHSHHTTEAKNDLRVGGRFVSKMEAKDGSFGFDFGGTYNKVRLYEFISYIMDDDRSVEITFKPEKDKTYIVESFEAEKSNPIDLQQKGWQAILDNFKKYVEENKLRGREK | 0.677 | | 90 | S | 0.624 | S | 0.21 | In |
| >a0bd6e3c0d771241883ce829d5540e8ed86e6be6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKCILGMVALLLLAASCSNKKENTETSEELLEIIHRVNQRYQSMHKPQVRSFWDNAVYHTGNMEVCALTGNKDYLQYSIDWADYNQWKGATSNNKAEWRSTYGESPEYVLFGDWQVCFQTYADLYKLDPDTIKIARAREVMEYQMSTSKLDYWHWVDALYMVMPVMVKMYDITKNPLYLEKLHQYLTVTDSIMYDREVGLYYRDAKYPYPFHKTINGKKDFWSRGDGWAFAAFAKVLKQLPAEDKYREEYITRFQTMAKSIAACQQPEGYWTRSLIDPEQAPGPETSGTALFTYGFLWGINNGLLNADIYSPIVEKAWNYLKTTALQADGKIGYIQPVGEKAIPGQVVDANSCFNFGIGAFLLAACERVRFLQ | 0.303 | | 33 | In | 0.605 | S | 0.06 | In |
| >821efdfff23b5e9b0a2bb04f42f6d3024d61c4f1 |  | |  |  |  |  |  |  |
| MGGSHHHHHHGMASALGNLLKVLTCTDLEQGPNFFLDFENAQPTESEKEIYNQVNVVLKDAEGILEDLQSYRGAGHEIREAIQHPADEKLQEKAWGAVVPLVGKLKKFYEFSQRLEAALRGLLGALTSTPYSPTQHLEREQALAKQFAEILHFTLRFDELKMTNPAIQNDFSYYRRTLSRMRINNVPAEGENEVNNELANRMSLFYAEATPMLKTLSDATTKFVSENKNLPIENTTDCLSTMASVCRVMLETPEYRSRFTNEETVSFCLRVMVGVIILYDHVHPVGAFAKTSKIDMKGCIKVLKDQPPNSVEGLLNALRYTTKHLNDETTSKQIKSMLQ | 0.479 | | 71 | S | 0.746 | In | 0.11 | In |
| >ce92f662dda81a47ea33af6213f47a438eaf814f |  | |  |  |  |  |  |  |
| MSLGRHGSKIIAVILNYERRSEMNVVSDPFYNQIVGFLEEEIRKKSYFMMLYTSGSVTESLRLATAWDIEGLIVLGSHPDDAKNFIKQQKRPVAFIDTYVDKESMTDDFINVGLQDFKGGYQITNYLIGLGHRRIGFFADGNQLLGVDQQRFAGFKKALSEADINLENPGFFGLDYRTNQRHIFLKKFSETKLKDYTALVFTSDFLAVDAINVFLDNGFKVPEDISITGFDHNIFSEQCRPKLTTIGQNVQKKAVLAVDFLTERIQSKQAIKKINLLLDAELIVQDSTAREGHHHHHH | 0.537 | | 49 | In | 0.559 | In | 0.16 | In |
| >f9208f2f0d3d21ee37b476d74efaaa8e21d59f7e |  | |  |  |  |  |  |  |
| QSFERASFKGRKSPSDYGLDARKILYVDAGIMGLPELDQMMKTNLNAKGIILDMRKYPRWDIMEVLGKYLYPQPTTFMWYSINSKKFPGNFGLDIIGKIGFKENPDYFKGKIAILVSEMTQSFGELMSVAYRVAPKSAVIGTQTAGANGHVGYLYLPRGIKFTYTMAGAFYPEWKLNQRDGVTIDIPVEQTVEDIAAGEDMWIRKAIEYIESKR | 0.571 | | 16 | In | 0.656 | S | 1.49 | In |
| >008559ecfe3708a7e04a8acb764f8fe722a8ffc0 |  | |  |  |  |  |  |  |
| MTWTHLPLGNKTSRFTQSALALMIAGTLPAYAGTFNPRFLEDVPGIDQHVDLSMYESNKAEHLPGKYRVSVVVNEKKMESRTLEFKAATEAQRAKMGESLVPCLSRVQLEDMGVRIDSFPALKMAPPEACVAFDDIIPQAASHFDFADQTLIMSFPQAAMKQTARGTVPESQWDEGVNALLVDYNFSGSNASYDAHDSETSYNSDSYYLNLRSGMNLGAWRLRNYSTWTRNDGNNTWDNIGTSLSRAIVPLKSQLTLGDTSTAGDIFDSVQMRGVQLTSDEEMLPDSQRGFAPVIRGIAKSNAEVTVEQNNYVIYRTFVQPGAFEINDLYPTSNSGDLTVTIKESDGSEQKFVQPFSSVALLQREGHLKYSLSAGEYRAGNYNSAEPKFGQLDAMYGLPYGFTVYGGAIFSDDYYSLAGGLGKNFGYIGAISIDVTQAKSKLANEENSEGQSYRFLYSKSFNSGTDFRLLGYKYSTSGYYTFQEATDVRSDADSSYSQYHKRSQIQGNVTQQLGAWGSVYFNVTQQDYWNDEGKQRSLNAGYNGRIGRVNYSVAYTWTKSPEWDESDRLLSFSMSIPLGRVWSNYHLTTDQHGRTNQQLGVSGTALEDHNLNYSVQEGYGSNGVGNSGSVNLDYQGGVGSASLGYNYNRDGQQVNYGLRGGVIAHSEGITLSQPLGESMAIISAPGARGAHVINNGGVEVDWMGNAVVPYLTPYRETEVSLRSDSLNNQVDLDTASVNVVPTRGAIVRARFDTRVGYRVLMNLTQANGKAVPFGATATLLDTTKESSSIVGEDGQLYISGMPEKGALQVNWGKDQAQQCRVAFTLPEQQDNTGVVMANAVCR | 0.536 | | 19 | S | 0.583 | In | 1.12 | In |
| >90ff664f19127894cc8882971d58c8727c8d37a1 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMYGKHRFRKCVWREGQFIEWTEPAIGRTAEIDDAVDMMLPRTESFDLSRRFLYRALDLFGKRSPARDGAQNVRLDVPVGDQQYRLTPAAGDILVSIGLDWDQSYSSEFYNLRKKKGIHVITCCYDLIPVLFPQYCVGDVSSRFKEYFNFLAWGSTAVLCISEQTKKDYLDLCNRIGSPIRPSHVIPLGDNVPTGDGDVGPQVQEVLRTPFILFVSTIERRKNHEILYRAYHRLCREGHGRKLPKLVFVGMPGWGVGDLLKDIELDPLTRDLIVQLNHVTDHELMQLYKHAFFCAYPSLYEGWGLPVGEALAMGKAVLSSDQGSLPEVGGDLVRYLPAWDVQAWADAILEWCSTPAKIHEVEQRVKKGYRVRTWTGTAEVVKQVIDGIAAAGADARTVIYPGYDCSTQIGVHAGSGLKGTGNDGFLMFGPHRAMTAGDYTVKIFGTPDEEKDANLSFDFVANEGRQCLWRGDVRVPRARSDAESLVVEFDIDVKQHLDDFEVRCIDHGTQMQLTRMEITKR | 0.23 | | 39 | S | 0.685 | In | 0.06 | In |
| >a2813b29d12b910311a4a85b7f0536335c9993c7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPTHDFFVYTPDALTFSGGTIRVNSGFDPLSDRRVVSLTDDDSTLDGDFTRNERGIDSNQRATVFESDGSTLARIGGDFVQNDQVYAENQYVLTGDDGSEITVYALESGGTLIGYLPTAPLLRDVNYSYRTHNVINDDELTGSYQYWYRQYLGEDATDAGSYDDIQGAVIVCFTPNAQVTTPEGPRRIRDLAVGDRVLTRDNGYQTLRWKYHRRLSRADLDRQPHLAPIIFEPDALAPGCPKRRLKVSPQHRILIESHMSGLLFASNAILAPAKGLVNGTSVRQDQSGMPVTYVHLMFDRHEVIEADGLYSESYHPGAWALAAAEDAVRRELFEIFPALEADLNAYGPTCYPSINAQEARLLKA | 0.194 | | 23 | In | 0.717 | In | -0.44 | S |
| >b2d0619602e8ed6bc71207b4631c017733564a16 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMENIEYEINYAIEHMMENNYPRKEFWGMDSKVPGLSCGIRAGDDGVVIGKSVYNMEGPYPLILGSKTALIHTTCDIVAMGAKPLYAMDAIQAANEEEIEIAIDGLKKQSIGLNIPIIGGNTQTIESLKSCMSVVVFGELISDKIIRDSGSKDNDVMLMLGHPVEGDIGERVQKAKNKFDTFLDVLKNDIEVHACKDASRGGWLCNILEMLLKAQNGVEITGLPYPRATRYLGTYLVSVPEDEVSNILEIAVKHRCPLTPFGRVTSEKVLKIGNNEYIDNEKMNELIKNFPYKS | 0.169 | | 88 | In | 0.726 | In | 0.13 | In |
| >d20952ef5fca2960c8177d7474882334fc29c427 |  | |  |  |  |  |  |  |
| MKLHITVLASSLALAMPALAKDIPLSQAESIAKSVTPDSASVAFNDLEAQWLTQLRKALQGDTAALTRDALAQMRQNSIQADNAWLQASGYDFHTTENQQMGITLLSAFNTLPEAVLKDNLATVTAINHDADVNTRHQALADAESVEYLYFLSDAMGPRLGRAFLAAYDKGELGKAAALIKASEVSTGAAKKYFHYPRPYQVPGNTIHLTPDDVVVKDGHPYTAGGGAFPSGHTNTGYTDALLMAEMIPERFDALVIRGARYGYSRLVLGVHYPLDVMGARMVAQRNVAHYLNDPYYRTLFNEARAQLREALVKECGTTIVECAASTGKDDPYRDPAMHTFYRFTMTYNLPQQKGEHQPLKIPKGADVLLQTALPNLSPAQRQALMEETALPAGYPLSGETEDQQFWQRLDLSAAYEMARKTR | 0.401 | | 33 | In | 0.59 | S | -0.06 | S |
| >5ac27bbc49cd626c6bf020eee874704720b04309 |  | |  |  |  |  |  |  |
| MIAPNTNAPVVAEMSDETITENTIAVNSQHKNMRLFFVLNTLVQHLHDFAREVRLTTEEWEEGIKFLTECGHITTDIRQEFVLLSDVLGFSVLVDSISHPKPDNATSGTLLGPFHTHDAEVKENGETIVSEGKGEPLLIEGKLTDTKGNPISDATIDLWHCDKDGFYDTQYEDREKADLRGIIKTGKDGSFAIKASKPVPYPIPSDGPVGKLLKRINRHPYRPAHIHFIIEKPGYDKLITALYEKGDPYETSDAVFGVKSKLLYTLGKVGMEKSKQYNMSPDDWYLNWDFKIITDKESRELVYEKNKKAIGLNSNLVLNKNGLPEMAPLD | 0.56 | | 92 | S | 0.863 | In | -0.07 | S |
| >f94bfa812e1ad5aa9ce40ae597609d5517fa8d4c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKILFLEWKSYCVPDMIEALETAGHYVTLITCKEMTDRYNTEFEKIFNSYIEQVSYDAVFTFNYFPIVSKMCNKLNLLYISWVYDNPLVTLFSCTVINKCNRIFLFDRNSYEYFHNAGIETVFYLPLCANPQRLCSYTTDPSPINDISFVGSLYTEPKQRLYDRIDGIDEY | 0.126 | | 26 | In | 0.546 | S | -0.61 | S |
| >8dc07a902dee13cbeba35857eb9c970ef24bfcfc |  | |  |  |  |  |  |  |
| MHNIEYLLIERHLSTAIHPKAGGITFRTMELFRELGLEQRIRSTGKTLENCRGRIAVHTIAEANQEELAQMRANQYENDEKLLQKIEEISPSKQTACYQITLEEIMLQEARTLGGELSFYHELVSYEQNEQGVIATIRNRETEKESVIHCDYVIAADGAKSKIREQLGLEHHHHHH | 0.207 | | 71 | In | 0.746 | S | -1.57 | S |
| >f76ffb520e9116ae0479f64b843fad93f0a2e02f |  | |  |  |  |  |  |  |
| MIRTTMKRLLAILLSALAFSSCSTKEDFTFDPYRNYDALWEILDRGYCFFDLKLPEDSTWRDMYHKHYRDLHPQMSSDSLFLVMTQLLSELKDGHVNLSSSFDYGHYWKWYEDYPLNLSLDLRRKYLGHDYRIAGGLKYRRLTYNGHAPDSIGYIVYESFGKPISNSNISGMLSRLTECKALIIDIRGNGGGQLTYADEFARHFTKEKMLTGYIRHKTGPAHDAFSDPLPLYLDTLSSGVVWMRPVVLLTNREVFSSANDFVLKMRSLPFVTVMGDKTGGGAGLPISSEIPCGWGVRYSAGRMTDPSGADVEFGIEPHYYVSLLDSDLANSHDTLIEEAVRYIKRKIAEYNQSGQWIK | 0.51 | | 11 | In | 0.865 | In | 0.91 | In |
| >d75c9fe1d1f04f3f22b8e20ff64948113c55e612 |  | |  |  |  |  |  |  |
| MVPGGNFPQFGVPIPQFRTIYDYTLDKGNLEGTKNTSDAVFEKEILDRAANLTPSVEIRKRINEYAKKVIVALEKEKREKTLVDIGIATISHVGSFVTDTTTHSSDKSDVVVQLSTLPSYETVAELGRKVVENMKIADPKETGEPLQMEYGCLITSHNCQVRLLITIIPEESTKLEPLLHLDSKQMMINFFSTRHITWFSQISSELPPAFIQEWQALVRVLKDTRSRYSDFQPLSIWTIQYLAFYCLANGPNRQKACLGTAFRRFFEIIAAGIFLPKSPCLIDPVSANYRIGFDLTLPQMDTVCMGAQTLVRIFATGNDGYRAILGTHGTAADLTQTISTWKGIEIRPSIDAYRDGCMTRFPARAEIPTV | 0.315 | | 32 | In | 0.972 | In | 0.53 | In |
| >5bb5b59b56f32573e10a1ad7b829bc4225215b50 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMNSKIEEMRITLIETAQKYGMNSKETIQCSQELDILLNTRIKEEMIFGRYLENSRM | 0.395 | | 84 | In | 0.511 | In | -0.24 | S |
| >6cf5dde92ebbc5748798aabac841d9c0fe672a04 |  | |  |  |  |  |  |  |
| MSLYGKQIFFYILEYHKDCINELYLAKECDKITFSKIAKSGFKIKKLDFKTAQAYAKGGNHQGFLLDIKESSFANLNEIKKNDFIVMLYGISDVGNIGAITRTAYALGVGALIFIGEKLAMEGVIRTSSGAALDLPIVISNDALSVINELKQVGFYFYASDGSGKEIHSVKISNGKKVLVLGSEGFGLSSKIVKKCDECVGIAMKNNFDSLNVSAAFAILCDRMLNAEGHHHHHH | 0.452 | | 96 | In | 0.764 | S | 1.39 | In |
| >1985d8f9ba22dd80069ff31793211f9293d45b70 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTKEKRLIATNKTEEERDRLTEVWKKRIVSEKGYSETIAERIAEKVKSLADYMQYGHAIIAYYRQNGSFQLVTGTLISYSKDFHHSYDMKQVHSTFIFWCMEEKGWRTFQIENFLDWKPIV | 0.153 | | 82 | S | 0.59 | S | 0.05 | In |
| >e9e30813a4dc942f27f9c77a9d8d5bcccb80a4db |  | |  |  |  |  |  |  |
| MCIYIHPCLFLRKQREVTGVVHIGVGFLRCSFSVVGIAKALNMERTKVRFPRFFIYSFHLTFIRLPGGSQGDTHRKIGHDSCGTAYRTYASRTGTHSYLVRRTVMLYTSQYIQDIQEGKYRHPSSLAHFVHTRS | 0.241 | | 9 | In | 0.78 | In | -0.58 | S |
| >bbb6d43eea0f2ff03fea2e64d6a5165da3d1a511 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLTSVDAIMEQIRTAPSRRALWQIMLDFMHDEGVVMGSYHFVDADAASVRVAADGFPEEWICEYLNRKLALIDPIPALAARMSRPFYWHEIQDLIPPSAQTDAYLDRLRASGLGDGLAFYVFGPGLRNAYVGLGFGRPVVDLPPEQIFRLQCVAQAGHLRVCELSDQAPKEAALSPREKQVLDWIAKGKSNSVIAEILAMSPHTVDAHVRSIYRKLDVTDRTSAALRGVGSGVLQYPGIDTATS | 0.189 | | 33 | In | 0.894 | In | 0.03 | In |
| >4adc2b71fbbef56ad156bcfa164e25275a61d54a |  | |  |  |  |  |  |  |
| MQKRIDEIQSKYREWCHLLPQLEEDIRRWKHVVTLIRDMDNFYTHEYQACHQAIEDGVELDLSTEGEYSIMSEDALWNALGEFHQLAWLYLRSSVDALDKYTQED | 0.536 | | 80 | S | 0.686 | S | -4.21 | S |
| >e9bc06f8bd2145126506a8973876b17b286b95ec |  | |  |  |  |  |  |  |
| MGHHHHHHSHMNEVKESLRSIEQKYKLFQQQQLTFTAALEHCRENAHDKIRPISSIGQVQSYMEHYCNSSTDRRVLLMFLDICSELNKLCQHFEAVHSGTPVTNNLLEKCKTLVSQSNDLSSLRAKYPHDVVNHLSCDEARNHYGGVVSLIPLILDLMKEWIAHSEKLPRKVLQHVSEPQAHQESTRGAARPAQAIGTQPRATKHKCRQLTKASLKPRGCSKPPWRPPGGKL | 0.601 | | 90 | In | 0.79 | In | 1.43 | In |
| >d2aef76e6883d418e72284e190f3fe9b48c0faee |  | |  |  |  |  |  |  |
| MASQTGHALPAAYDALNIGIALYDPDSGAILDGNERLAEIFGYSVSELRERSISEYTANTFVHSVADFRSRLQDSAAGGSRQFTWRIKRADGELIWARIHLSERVVSGRTYVCAEIRDIT | 0.329 | | 26 | In | 0.639 | S | 0.01 | In |
| >a82a6fa1f24bd90143a1f508813e6e3390f30d76 |  | |  |  |  |  |  |  |
| MIRAVVGDLTKVEGVEYICNAANGIGPMGGGVAAAIRRAGGRVIEEEAIRVCQAQDPKPGDLYVTGAGSLPFRGVIHLVTMKQPAGATSYDIVRACLERLVAHCREHGIKKVALPALGTGVGRLDKEKVAQLFVEVLGPVEDVEFVVVDIDQAFISFVQQRQ | 0.549 | | 87 | S | 0.766 | S | 0.17 | In |
| >f7bc681a9d2b2e3b51f7a41017ef93e1687601f9 |  | |  |  |  |  |  |  |
| MQIVRYSEQTLKIAVISKNPVLVSQYEKVDAGEQRLMNEAFQPASDLFGPCILHQIGSPPTLRPPKTLNSSSVILTERYPLQTNAVFIYGPLDLYEAPELSVKNILNGSRATVKHISIA | 0.279 | | 74 | In | 0.544 | In | 1.8 | In |
| >a71172979c3da4f537c6097108a389948bae580e |  | |  |  |  |  |  |  |
| MTRIAILGGGLSGRLTALQLAEQGYQIALFDKGCRRGEHAAAYVAAAMLAPAAEAVEATPEVVRLGRQSIPLWRGIRCRLNTHTMMQENGSLIVWHGQDKPLSSEFVRHLKRGGVADDEIVRWRADDIAEREPQLGGRFSDGIYLPTEGQLDGRQILSALADALDELNVPCHWEHECVPEGLQAQYDWLIDCRGYGAKTAWNQSPEHTSTLRGIRGEVARVYTPEITLNRPVRLLHPRYPLYIAPKENHVFVIGATQIESESQAPASVRSGLELLSALYAIHPAFGEADILEIATGLRPTLNHHNPEIRYNRARRLIEINGLFRHGFMISPAVTAAAARLAVALFDGKDAPERDKESGLAYIRRQD | 0.162 | | 30 | In | 0.733 | In | 0.33 | In |
| >c6a44861ed0292365385c7cab5f4428b37708f91 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGLIKVAEISIEKLEDRKTVTAILHENGYTVGPGKRKKTETGKQLDYYLKVYVEEGTDKAELYKATSGKTKVTAKKVTDKMSAEIGDKA | 0.103 | | 100 | S | 0.766 | S | 0.3 | In |
| >9a7df91abc0114de1e362d30f26fd3f91f82e5c4 |  | |  |  |  |  |  |  |
| TRGGRTLTVFDLPTGIEVADVMPMVVSALSEAISRNMMKRIVVEKINGEQVFQSQWVETLRAAGAHIVPQGIRISAVTQQDTTFHARGRRLSQALSDLEDQQEQHPRLRRGGFQSGGRR | 0.702 | | 25 | In | 0.518 | In | 1.42 | In |
| >2504f043c47f6336b4ee941ea42bc0843f149160 |  | |  |  |  |  |  |  |
| MSLSRRQFIQAAGLALGAGSLPLRAQASSTQQPQLPVPPLLESRRGQPLFLTLQRAHWAFSGNKKAAVWGINGMYLGPTVRVFNGDDVKLIYSNRLTEPVSMTISGLQVPGTLMGGEARMIRPGEDWSPVLPVRQPAANCWYHANTPNRMAPHVYNGLAGMWLVEDAVSKAMPLPSHYGVDDFPLIIQDKRLDNFGVPEYNPPAKGGFVGDTLLVNGAQSPFVEVSRGWVRLRLLNASNARRYTLQLSDGRPLYVVASDQGFLPAPVAVQQLSLAPGERREVVIDMSQGNEVSITAGESAGIMDRLRGLFEPSSILISTLVLTLKPTGLLPLVTDNLPMRLLADQIIEGSVIRSREFQLGDNLPGINGAIWDMNRVDVQAQQGTWERWIIHADMPQAFHIQGVSFLVKSVNGAAAMAEDRGWKDTVWVDGTVELWVYFNQVSSPQFPFLFYSQTLEMADRGSAGQLVTVAAPTL | 0.45 | | 13 | In | 0.54 | In | 1.51 | In |
| >e7419a856f5dc32354774f15944805c7944d66ee |  | |  |  |  |  |  |  |
| MKILVIGPSWVGDMMMSQSLYRTLKARYPQAIIDVMAPAWCRPLLSRMPEVNEAIPMPLGHGALEIGERRRLGHSLREKRYDRAWVLPNSFKSALIPFFANIPHRTGWRGEMRYGLLNDARVLDKDAWPLMVERYVALAYDKGVMRAAKDLPQPLLWPQLQVSEGEKSLMCSDFSLSSERPLIGFCPGAEFGPAKRWPHYHYAELAKQLINEGYQVVLFGSAKDHEAGNEILAALNSEQQAWCRNLAGETQLEQAVILIAACKAIVTNDSGLMHVAAALDRPLVALYGPSSPDFTPPLSHKARVIRLITGYHKVRKGDTAQGYHQSLIDITPQRVLEELHSLLSEEGV | 0.623 | | 27 | In | 0.531 | S | 1.08 | In |
| >ee0e47ef6eabedcd9701549a96879e3c7ca98926 |  | |  |  |  |  |  |  |
| MGSSHHHHHHGGTGENLYFQGGSGACRSHKVTCVEQAVWCETLLRHSQHTAPLVLANINAAAYTKPMAEGNDPLDVQGVAIPPCKDVFTEQDSHAITSEKTSTIMSLQVLFENIFKHHELALPDYARVAQAVHATLPLTTLLCDITIYA | 0.79 | | 98 | S | 0.701 | S | -0.68 | S |
| >439479a415e8b8cd1842df3116d0f70cb072158b |  | |  |  |  |  |  |  |
| MNYGSDYRFIPATSIESGHGIEVLPDLFCYTIQIVNICFVGNPESNDFVLVDAGMPKCANEIISVAKDRFGTNSRPKAIILTHGHFDHVGGIIELIKYWDVPVYAHQMEIPFLTGQQSYPKPDPTVEGGMVAKMSPLFPNEPIDLGNSIKVLPTDGTVPHVPGFRWIHTPGHTPGHISLFREKDRTLIAGDAFVTVKQEYLYKVITQEQEISGPPRYLTTDWKAAKESVITLEKLKPLAAVTGHGLPMSGELLSTSLNTLVQEFDKIAVPDYGKYVDKKRN | 0.704 | | 90 | In | 0.606 | S | 0.67 | In |
| >ed9e49bc60f3e4a930c6239a27105554e15ae1f1 |  | |  |  |  |  |  |  |
| MAGDPMSALSFRGNSPGIEYTVKVSQRARYARLKMSPVEGLTVVVPVGFDKKQVPALVESKREWILKVRRTFDKHRAAAPAQGDAALPTVIELAGIGESWRVRYRSEPRQRITITEKGEGELEVSGPVSEHAMCFAALEQWLKHRAKLKLGAQLMRLASINGFKVSGVSVKKQKSRWGSCSSRGNINLNLKLIFLPPLLVRYIMIHELCHTLHMNHSARYWETVARFDPDCVVHDREMKHAWRFVPAWFSNARLEHHHHHH | 0.432 | | 43 | In | 0.884 | In | 0.62 | In |
| >11c4c364a4df2d755cae7f9f3a100885c3884d84 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTVHDDAAAALRARLDALPGSRRLTAEQLEVIYAMAYAHVARCEYGKALPIFAFLAQYGPTRKHYWAGLALCLQKTDRPDEARNIYALILTLYPDSADAVLRTAECELALGENERAQAALFGAIAIDAESGQPGPVSHRARALLDLISVSHPE | 0.135 | | 46 | S | 0.591 | S | -0.88 | S |
| >b195980729bd915e294a9c68e04297dd956fa871 |  | |  |  |  |  |  |  |
| MKTFILLAVLGLASASVHQHKIVWRESKKMGMIRTGQYPAYLEYQRNLRAVSPNVLANLPQNVNDFGDFEYLGNITIGTPDQGFIVVLDTGSSNLWIPGPTCKTNCKTKSKFDSTASSTFVKNGKSWTIQYGSGDAAGILGQDTVRFGAKGDSQLSVPTTTFGIASKISADFKNDATDGILGLAFTSLAVDGVVPPLINAINQGILDQPLFSVWLEHRGAANNVGGGVFTYGAIDTTNCGALVAYQPLSSATYYQFKAAGFKLGSYSNTKTVDVISDTGTSFLGGPQSVVDGLAKAAGATYDDFNEVYFIDCAAQPGTLDITIGTNTYSIQPVNYIVDAGNGQCLFAAFPFDFGGFGPSWILGDPFIRQYCNIYDIGNKRMGFAPSLQK | 0.388 | | 35 | In | 0.692 | In | 1.62 | In |
| >8734f1a03a343665a0119773b7dee8b5aea72a22 |  | |  |  |  |  |  |  |
| MPKYTLPTRDALLKAMQVGETSIEAAEYMATRFEQILTKAKLLPECNDMLEKIKEYAQFVKFKLLSSAQVWSGQERPTSDYQNTQENKAEFLASHLEGLPSGLKLEVAIGDDAKILRGFSSNGKMVEGDQLKTMDGLLEGWLAKNSLAISGGAVVKIDNTGNQTKVDPQEIRQLINDSEKGVAKYFADKGVGMEVAQRTYQEPKALETKREEIRQEIESGAEAPTTQSIR | 0.661 | | 89 | In | 0.799 | S | -0.09 | S |
| >c248d7ca1cb1615f8b5fa976465cb2ed47e8bc3d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMMIQGHLFHQDRKRTFRIVEPFGSTTDALIYFHGSQQSGSVGRSFTNRTFDPLPFMVVYPDGVDQHWNDARLGLDENTRHLGIDDVGFFVKLATHLGNTYGIKRIFIVGYSNGGQMVLRLMHEVPKMLSGAATIASNMPVAENTLPQVKTFKTHPVPYLAMAGTADTFSPYEGGDAGIGREHRRGVGMSAFDSAAYIAARNGLTEHRHDVIDDVVSIDTWDGENPVEFWTLNGIGHLVPSGKTYPEFLGPSTTSVIAAEEIGKFFDGVRRR | 0.24 | | 24 | In | 0.828 | In | 0.75 | In |
| >1b7ac77768d118bb925ae34fa764afb3c34faf2d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAATNHWTRDQLLIAFTLYSQLPFGRLHSRNPDIIRYAALINRTPSALAMKLVNLASLDPFIIDSGRTGLRGASNADRALWQEMDGNPELFEQQCQQAMISLEAGAATATVAPSPFQANESDIRDYHGGERFAQVKTRIGQQLFRKRVLSNYGERCCVTGLEEPTLLVASHIRPWKTAAEHRLNPSNGLCLSNLHDKAFDMGLISFNDSLEMLLSTRIKKLKSAISDVNFAQYEGKQIHLPDAYPPDLSQMEYHREHIFLGQG | 0.118 | | 25 | In | 0.73 | In | 0.83 | In |
| >8170256657e1da5a11002ca38466f95142e0a71d |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMLDEGSQRSFPSDREARLMKTRNGFVPAYNVQSVVDSQHHLIGAMQVTDHPNDFEDLQPSIHAMQEDLQVEVSQAVADTGYANEEQILALEEEGKVIAVPFNEGDHSPKEDREHGIFFTYDADNDYYICSQEKILPIKDRQVRKHGKIYRKYQGRDCKGCPLIKFCTTSKKGRIIYRRADAEPIRQYMKKCKGMKYKALIRLRKTWVEHPFGTLKYWMGQIPLLLRGKEKVQAEIDLYATCYNLRRVTNIQSIQVLLQQVHYWGIKYT | 0.165 | | 71 | In | 0.867 | In | 0.58 | In |
| >dda17efedce9ffeb586b57091999a2c1032953f9 |  | |  |  |  |  |  |  |
| MSSAIRKAAKGGQCTPNIAGVCNDNPETVVLCRFPGETHGAGLKSGGLGAGFGCGCRRGAIDGRGAGLSREDKEFYMRRSQLRTIRRLEALGVVGVKGRLK | 0.496 | | 99 | In | 0.597 | In | 0.83 | In |
| >055439479710b615430b416ca0b9b6db19f7891b |  | |  |  |  |  |  |  |
| MAHHHHHHMSSVILVNPIAFGPNPKTKDNALIQSMHVGNAKADMDRSQVCALVTELESFFKVDCGIRTVVVHQSREPKLYRVPLEERGESVCVADSLSVHNVVDNNGVIQRHLVVFYPMNPYRQGELARKQLVNHITKAAEENAAIELIDLRPFEEEGKYLEGSGSLIFSPGGRYVYTAVSQRSHPDVLEVLCRPENLNIPPQNRFLLRCKNAVPHTNLLGWCGMGICAWAISSLVFDVEEEEVAFYDHLSAAYSCVLELSEAEVEKFAASALEVPVQPQSGSAGKAHYVLVISETALAGLTSKNRELLMDWYGKENVHTFYGEVLERRCGTSLPSCIAASYTLGSRPPLPSQPSTIELLRLGVNN | 0.615 | | 76 | In | 0.97 | In | 0.47 | In |
| >6bf6b3296b675b52a8717b68038f498e68f774f3 |  | |  |  |  |  |  |  |
| MSLKKTGSDVLKEFITTFEINYIFGNPGTTELKFLEAIEQCDNATYFLTLQESSTVGIAAGYAMITRKPALINLHNYVGLANAVCNMYNAFTSGIPLLIIAGQHARPYLIHSPVMSGDLTSLAHTAVKYAYEVNSASDLAVALQRGYAQAILPGPGPVFLSIPMDIWQEETQETTIKKTKFLHACINAEIEQICEVLTNTPKGKLAFIADYEVGASNSIRLLHTIADRLNADIYAAPYHVREVINPLSVNYKGRLSDKSGEVHNLLLQYETVVLLGEKVKGYLYTGQSSIPQGIRFIQISAASEHLAFDYPCDLAILGNLEATLTAISKHLKINGLNVPLKPATNIKNLEKKYKQHPLHSLIVTLLNQVNRSVHLITEGSSEDAIVQDIATTLGFLNVNFSPRGGGLGWAMPLAIGISLATRHHSICFVGDGGSMYAIHSIWSAAKYKIPVIFICFVNREYRVLKTDMSQNRSFTEEDFFRLDLNHPPIDVQQIALSFGAQVKTIKSKEEVETVLKSSFAFQGPTFITLYHQEGHHHHHH | 0.554 | | 42 | In | 0.521 | In | 0.7 | In |
| >6300e82c70cec80502999472ac357c7e66a80b58 |  | |  |  |  |  |  |  |
| MAHHHHHHMTETFAFQAEINQLMSLIINTFYSNKEIFLRELISNSSDACDKIRYQSLTNQAVLGDESHLRIRVIPDKANKTLTVEDTGIGMTKAELVNNLGTIARSGTKAFMEALEAGGDMSMIGQFGVGFYSAYLVADRVTVVSKNNDDEAYTWESSAGGTFTVTPTPDCDLKRGTRIVLHLKEDQQEYLEERRLKDLIKKHSEFIGYDIELMVEKATEKEVTDEDEDEAAAAKNEEGEEPKVEEVKDDAEEGEKKKKTKKVKEVTQEFVVQNKHKPLWTRDPKDVTKEEYAAFYKAISNDWEEPLSTKHFSVEGQLEFRAILFVPKRAPFDMFEPSKKRNNIKLYVRRVFIMDNCEDLCPEWLAFVRGVVDSEDLPLNISRENLQQNKILKVIRKNIVKKALELFEEIAENKEDYKKFYEQFGKNVKLGIHEDSANRKKLMELLRFHSSESGEDMTTLKDYVTRMKEGQKCIYYVTGDSKKKLETSPFIEQARRRGFEVLFMTEPIDEYVMQQVKDFEDKKFACLTKEGVHFEETEEEKKQREEEKTAYERLCKAMKDVLGDKVEKVVVSERLATSPCILVTSEFGWSAHMEQIMRNQALRDSSMSAYMMSKKTMEINPAHPIVKELKRRVEADENDKAVKDLVYLLFDTALLTSGFTLDDPTSYAERIHRMIKLGLSLDDEDNGNEEAEPAAAVPAEPVAGTSSMEQVD | 0.639 | | 97 | In | 0.942 | In | -1.3 | S |
| >6fe0d7252c909c8cd11f58dc0c9a2309c167fcae |  | |  |  |  |  |  |  |
| MGHHHHHHSHMSGGPMGGRPGGRGAPAVQQNIPSTLLQDHENQRLFEMLGRKCLTLATAVVQLYLALPPGAEHWTKEHCGAVCFVKDNPQKSYFIRLYGLQAGRLLWEQELYSQLVYSTPTPFFHTFAGDDCQAGLNFADEDEAQAFRALVQEKIQKRNQRQSGDRRQLPPP | 0.364 | | 52 | In | 0.568 | In | 1.16 | In |
| >bab813fa55088beee79b92a08e8729a8eaa6aa1b |  | |  |  |  |  |  |  |
| MSKSSEISRFENRFSENVIEIAAVTGALGIGASKGGDNILWTASIDLIAWKDLHNNETIRKEDIRLAWLVDDAEWRKSKDILTANTVVALQVRKSENSLMLVKVLETPYKDDELEIILQDAMKPLFYHDEMLGVFELDKRVKAFEKRISWAGEECHLYFDWSEDKHMMKSALETAHALFKEQDEWKMKMKMYAAKELVELANEWLQDDDEAEIDEITKEMFINSITLSSLSVYSEGDFEIFFSDGDIFWGHSIIVSGNIHEGLSSAEIAG | 0.38 | | 93 | S | 0.827 | In | -2.48 | S |
| >b3913a0f79024686eddce9583f53a1b038361d4b |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKIDTHAHIFLKKLNTVANARYKPDYDASFKDYKANLDHYDFNKGVLVQPSFLGIDNEFLLQSIEYYYNIKAIVVVDENIKFDELKKLKERKACGVRLNLIGKELPNFKSMVWTQFFENLSKLKMQIEIQRDLDNNLVDIVENLIPYGCNIVIDHLARANANLTNLEDLICLKNSRIFFKISGFYRAKIDYANNEQAVKFAKKIYEILKEHFPLSNFVFGSDWPHTNFEANINFSSALVAFNEVVVSKKEQEQILGDNACALFGF | 0.162 | | 97 | In | 0.829 | In | 0.36 | In |
| >34a55e89ef46c1034efd61c344280d704340d18b |  | |  |  |  |  |  |  |
| MAAQDITGDIATSCSATTVLAALQGSYAQYSRIFGVFSVENNAVQNKHKNSILNLPSTTDDSPSDVAGFPLAYVETEVYLAADTKVLAANIVLDAELQPLEDEDLDEEAQQALTRCFDLLSETALEMRRPIIHVQLPYGKVATSAHNFCVNQLMQHGYRLAHEEIHGYVVMPLALERVENIHTECFENSEFPDEIIPGILELLNQSNTDIPTGDLLRQPQPWTLQRLQQSATEHKKRGNRTLTTVLRDDSGCVLALSEALQRCHSSADLAEQGITIVDCDHRNQGYGTRVKAAALKNIHNNWPKVKRVFSDYSSHNTRMGSINSRLGFQRVSATQIWQLTL | 0.194 | | 42 | In | 0.806 | In | -0.55 | S |
| >39fd690238ddc0dab5517993a08bc7ea39ccc3b0 |  | |  |  |  |  |  |  |
| MNDHTAAIAAHFDQLAPNLDRWRRRNRTYYRDLEKLHRFWIPTGSRVLQVGSGLGDLLATVEPSFGIGIDVSPQAVAIAQQRHPQLQFHCLAAEELTPEAIGNPEPFDAIILTGVLSYLTDIQVVLEQLQAFCHPRTRLILGFHNFLWQPLLTAAEKVGQRSPQPPESWLGMQDVLNLLTLTGLEHHHHHH | 0.412 | | 17 | S | 0.606 | S | -0.3 | S |
| >4079efd21bb9c0d870e5d6171685d952c5ab84f8 |  | |  |  |  |  |  |  |
| MNTHDNDSEGYLIPENEADNKIGYAKMVKAHVMHRHLHLKQDFSTWFNDCVEKFDLKEGVDFVFTKQEWNRQKICPKSEIETDKTDNHYFKIHVAKKIAQAERHRNYGRILYQDLCFH | 0.524 | | 99 | In | 0.568 | In | -0.62 | S |
| >b91e51ba5d1aeca0c4e6934eeada095e955e39fe |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHAQPRISSNKETHHFGQIEWKRPVSVEYTITNTGDKPLVLTNVTTSCACSVANWTKTPIAPGEKGTVSATFDAKALGHFNKSIGIYSNAQPSLVYLNFDGEVVQEIKDFTKTHPYAIGQIRIDRTDIDFPDAHSGEKPVITLGVVNLSDRPYEPVLMHLPPYLKMETNPTVLLKGKKGTITLTLDTKQLMDLGLTQSSVYLARFAGDKVGEENEIPVSAVLLPDFSGMTEQDKAVAPVIRLSESKIDLSQVLAKKNKARRDIVITNTGKSPLQISKLQVFNPAVGVALKKTVLQPGESTRLRVTVLKKNLGKKKRHLRILMITNDPVQPKVEIDVKATNNESHN | 0.263 | | 92 | In | 0.501 | S | 1.89 | In |
| >6147ad9a151e0091a984fa1a13ce645b68806858 |  | |  |  |  |  |  |  |
| MAHHHHHHMDSAVEKQNLFSATNSRGIAAASSVDNAASASNQMNTKTKKQLFMLQRAERLKDPKVRKMGIDREALDAQVREKEALRRLEKERNDYYDRQALLMDRHACALQQEVNSIRAAREKELQDYRQTFQKKEMGREWDLNDPEARRKELPARIGDDDPRNGPSSLQKFEGEDLDYASRRAAQRRQQRQWAQQQVNEKLAKKWMEQERDRAFDDRNEEVNYRLYEVEQKVAEQRRLMEKNGADFNRALAEQQRREAVRAKEEDTRLGLQEMAYQMDSDFLNERETVVSELGASVMAERYKGMSEKQKALLRAGQDEQLRELRRRRLLEVEEQRQWSLQENMQLRMANALDRQRERERRAECEQLAETHKMQAQAAAERKAQLDELYKNAVDEDYFKYWDRCL | 0.4 | | 38 | S | 0.977 | In | -0.62 | S |
| >c6d42b831c159d3a6dfd3079e88bd8fce9553bf3 |  | |  |  |  |  |  |  |
| MSLNSSNPKIVWEVKPQADLNNIGGEQISTPGFKMPDYVKGVVPGAVFTAYVEAGIVPDPNYADNIYKVDETFYNRPFWYRTEFELPASYSAGKRVWLHFDNTNRFADFYFNGEKISGTKTSTKDVSGHMLRSKFDVTHLIKKSGKNAVAVLITDPDQKKTRKGKDPYGVACSPSYLAGAGWDWMPYVPGRLAGITGNAYLAITGDAVMEDPWIRSELPTLQQAELFFSTGIKNVSSAPKEVEVSGVIQPGNITFSKNIRVEGKETVQLSVDKSDFAALVIRNPKLWWPNGYGEPNLYTCKLTCSVDGKISDEKDITFGIKKYEYKMINNVVNYPVLTFFINGQKIYLKGGNWGMSEYLLRCHGKEYETKIKLHKDMNYNMIRLWTGCVTDDEFYDYCDKYGIMVWNDFWLYVAYNDVAEPEAFKANALDKVRRLRNHPSIAIWCGANETHPAPDLDNYLREMIAQEDKNDRMYKSCSNQDGLSGSGWWGNQPPKHHFETSGSNLAFNKPAYPYGIDHGYGMRTEIGTATFPTFESVKLFIPQESWWPLPTDEQLKDDDDNVWNKHFFGKEASNANPINYKKSVNTQFGESSSLEEFCEKAQLLNIEVMKGMYEAWNDKMWNDAAGLLIWMSHPAYPSFVWQTYDYYYDPTGAYWGAKKACEHLHLQWNSSNNSIKAVNTTTKDLKGAYAKATIYNLNGKEVAAYGRTKQMDVPASNEGHHHHHH | 0.517 | | 51 | In | 0.61 | In | 1.1 | In |
| >531ef9d8ee0b0bb00617288edeb82f7fc313951a |  | |  |  |  |  |  |  |
| MSLQKTSFALLVAALQLASASALAATPPVADAIWFNGPIITIDDQHPKAQAVAVKDGKILAVGDRQHVLKNKGPATQMLDLKGATLLPGFVDPHGHVSMVGFQAASANLLPPPDGTNNSIPGLQETLRRFEQQSPIPKQFGVLFGFGYDDSQLQEQRHPTKADLDAVTRDLPIAIVHQSSHLGVLNSKALELAGIDASTPNPEGGVIRRVDGSQEPNGVLEENAFFNALIRIFPKLTADQAVDMLSAGQKLYVSYGYTTIQDGRSSPDQVKTAIKAAGDGKLLADIVSYPDILTPGVKQLMVAPWYHPSNQPVVYNQHFRIGGVKLTLDGSPQGKTAWLSQPYFKPPQGQDASYAGYGVVKDADALAIYKEALANRWQILSHTNGDRAIDQLLGSMRAAEQAYPGVDVRPVMIHGQTLRKDQVAELKQLKIFPSLFPMHTYYWGDWHRQSVLGPERAENISPTQWVLQAGMKFTTHHDAPVALPDSMRVLAATVNRTTRSGYVLGPDQRVTPLQALKAMTLWSAYQHFEEDRKGSITPGKLADFAVLSANPLTVKPETLSEIQVLKTVKEGRVIYERPAKVASLPPPFGMHGDPSLPVPQGIRAVAQGDGDLGPALDVIYDRLAEGHHHHHH | 0.672 | | 61 | S | 0.674 | S | 1.02 | In |
| >6273b2afdf7b4d695fd7afba5e75efc987ddb063 |  | |  |  |  |  |  |  |
| MAVFQVRIRICCVLFWRLPCWRYLFPAAAEALNYNIVEFSESAGIEVAQDTMSARFQVAAEGRDKNAVNAEFVKKFNNFTRKSKNGSFKTELVSRSAMPRYQYTNGRRIQTGWEERAEFKAEGRDFDALNRFIADVQTDASLEDTDFSVSRERRNEVIDQVSKDAVLRFKARAEKLAGVLGASGYKIVKLNFGQIGSHIAGDGAVRAKMLRAMPMAASVNMKGTDSAAPGVEEISISINGTVQFLEHHHHHH | 0.194 | | 43 | In | 0.846 | In | 1.11 | In |
| >8cdb549000276c8547a0cea3e590586e2b079637 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMARKATSFNVVIVGQNGRLQYEAALFLASFRAANANFPGKLFVAEPQPGPRWSKDPRMGDPAVRALISDLGAEIIPFINKHFGETYPYGNKIEALLALPKGEPFVFFDTDTLIMGDLTKVPFDFAKPSASRRVQGTWPNIELYGPGYTAIWKSLYDMFDLDFEGSLDCSHPDEYWRRYLYFNAGFFYHACPHEFGQRFAEHATRIHDDGPRELVCQSLDPWLDQVALPLVIHSFGGGRDALEPGWIDGKTSCHYRVLPLLYAREEQHVVDTLEKVTAPNKIKKVLKAYEPMRRMIFQGKGAKARALFDQANLPRREQQIRNTLKREKLWLR | 0.412 | | 38 | In | 0.628 | In | 1.03 | In |
| >faac42782b2ad23c48caa6f0b9c8011b8df4aee8 |  | |  |  |  |  |  |  |
| LMMKHLLGGVKKGAFDQAAAENKFEAWLKGKKDALNNMKAKVKEAAVADDKVKLEAEKAVNKARAEAVAEKKAAEAKAKAEAEAAAAAEEAAETEETPVEAAAEEAPAAESAE | 0.524 | | 100 | S | 0.516 | In | -2.4 | S |
| >977b521364db999bda4f45412c41b150477767f7 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMRKVACANTYINKIKPVIRKTSFSQLKIDEIAKYMDISKATLYKRFSSKDEIIEAVVEDFMNYLLEGDADNQDESMSFAERFQKTFIHSLKCVTYISDVFLQDLKEAYPHLSDQLVAAQQNRNHNLQMFFEAGMEQGYFNKMNAQLFMVQDDVMLRRIIDHSFCIQYDITLKKAILDFYQLKKYQLFKPEYIEAIDDSEIEKEVMAILQMIS | 0.263 | | 98 | In | 0.5 | S | -1.32 | S |
| >90197c0bb1926d734075c80edf8040cb267a9bab |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGSLTSVDKSRIRQAFQKALNDYDRHALIQQKMTINLMAHLQDYLPNGSLDSVLELGCGSGMLSSLLQKQISADYWLFNDLCDVQTQLAEKLPQSFDFYCGDAEHFLFLQQFDLIASASAVQWFHQPDAFIAHCKTGLKTNGLLAVATFGEDNLKEVRQITNIGLNYPTLSQWQTWLAKDFELLWCEDFKVILDFDTPLDVLKHLKYTGVTATNQKNWTRKNLNGFIGDYLSAFGMPSGKVRLTYHPLFFIARYSHIENQ | 0.4 | | 65 | In | 0.665 | In | -0.13 | S |
| >d626de07a2ccf8113fb28f6821cd46c6c1b42444 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGVAGYSEMAHMLGLYDVAEKYAGIAKKMAVKWEEMANEGNHYRLAFDRENTWSQKYNMIWDKMWNLNLFPNNVIDKEVSYYLTKQNPYGLPLDSRKEYTKSDWIMWIAAMSPDQDTFEQFINPLYKYINETTSRVPISDWHHTDSGKWVGFRARSVIGGYWMQVLMNKVMNNQ | 0.517 | | 21 | In | 0.582 | In | 0.73 | In |
| >80d3024a12797ccc6ede26d052441aaf602f4fe1 |  | |  |  |  |  |  |  |
| MTSNPLQQCCSSSSDMNIRSQRTMSEPARNASALLAEALKPGASLDQITLALEAILAVTAKGLGGDASAYAQYQALLLELHVGSDPHTEPTRRWMASQVYLVEDRFAPEPAGFSAVPVEEFRKKVDAEIEARSRVRHPMSVHLFQGTPPVEDVRFFLEHHWVRSYNFYSLLAELAFRFENIEDASVFYRNLYGEAGAETPERSHPALLSHLMTYFDIPLRIDFPALHPLEKAYLNNRIRCVRHTDVAWGLALLYAVESVSCVNHRRIYELLQRLGVPEQPSEFHRLHGTQDEIDTEEMWALIAKFAPSEDFQRKFMQSLARHFEINRAYFDLLWEQMQANSLAMA | 0.672 | | 32 | In | 0.726 | In | -0.58 | S |
| >71b0509a65772fac56c6842286f90944d1616e2e |  | |  |  |  |  |  |  |
| MAHHHHHHMVQQGNHVALFPTPRLYTADVVGNVYVTTFPASSVGETNKAEPPAKRRRVDNQSSGGVDEHPFWEPVVAASTSGAEAYGARGWCGLTPLADDQVVCCREFFFDLRLLDARNCGAVIRQYGTLHAPTGMATCGGIFPHGVVVAEGPVASVYDTRCSGAVMTKQTEAMSGGQRSVPLVSSRFTDATTRVADVCATCNEFEVAIAVGRAVCVHDIRKWTRVSITTSVLKYDIGSIAPFACGKGVVAAGIDAEVRLVLLTEKLNGASSTTGTVVHGEGNCCGGNGSKKEVDVDVNGGAAVKSDELTSVTSFRNRIDSVVSCRSTWQGGWVPSVDASCATGISADHEFFMAF | 0.431 | | 68 | In | 0.982 | In | 0.81 | In |
| >d79142495b68ad6c876de3e4d0f166bc876bb573 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMVFPNGFSIKTDRDNFHDILNLYLFSYKYGVDIGSNWKFDEKYNILITPSGIKFSIKGFDPVIFSETFLYDIHFIDYNLENKKIIQAGAYVGETALYYAKRGAYVYAFEPQLDCYNIALTNLKLNPELASRVVLRNWAIGEDGEIEFPNTRCNGGTSYFDSYKDRIRVRSVSISTVLEEFNISQPDILDLDIKGGEFRVINDKSIQKFSIVRIEYNTVIDNKKLGDVTYLIEKLRSYGFTKIRIYKHNELPFDLSINGVIEARK | 0.157 | | 23 | In | 0.649 | In | 0.71 | In |
| >1b7a445591343336e74aafffc200e3d8dae3ad3c |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKVSIITSCYNREATIRGAIESVLEQDYPYIEYIVVDGASKDNSLAVINEYKNGIDTIISEPDKGMYEAINKGIRAATGDIIGLIHSDDFLFSSHTISDIVKTFEEQDADMIYGNGVFVDYDDTNLMIRNWISGRYSKENVKNGWLPLHPTVYIKKECMDKWGLYDESYKIAADSDLLVRYLYEADLKVYYLNKYIVKMRMGGLSTDAGKSKLKWAEDLRMYKSHGIKPISALKGKILSKIPQFIEARLPWSEIPEAEEESLIQPDAANKKE | 0.168 | | 65 | In | 0.546 | In | -0.22 | S |
| >9e054b60b6f631fbcde3d867a15636575dcaa31a |  | |  |  |  |  |  |  |
| MAHHHHHHMTNELRKRIEDIEGKTFHFESRNTVIRGDEAGEDGEIAVLHRHVYFDQIMDEFYLLNPAEVYVCPMCYEHYLNTRFLPARIEEGRSVKRLHSGQPVVDPLDVLSHMHGEEPSSGDADNSAPIVLDTVWDNVLVHIVFRRAAQWKTHMESHHWVRGVSAGDYRLRDVLCTYYNDYNQWNEEKHEEEVRLYGGSRKKAALTLQRYWHINASYNRLRYNRVVAATELAEGHAEAVTESAFPNETIADHLNPEVDNEDDFIDDDTEADDYVPPYSSEHEEFGDEEDVTDTSEGEPREQCRKRNRDRSAEFEVVSYRSRSSSTTTSSTDSDYVAEIEKQRALFKRGLLAERDCYFSRLSAEDRQFFEKSHRSNVAPSQLYDPCMHLKHTPSSAFDDNIDWENIGEALPITNSVKLKKEMSASLPHEAADLEPIKTKLLLDDDEASPLSVAQPQLTPSRPSSRLLLDDGE | 0.475 | | 83 | In | 0.985 | In | -1.8 | S |
| >f476099e3db02429ef3eae0b913577c6acc3bee6 |  | |  |  |  |  |  |  |
| MARKVRETHAALASAIEAAAARASAAASAALLVPPEAHQLESLIRELQAARVSGRAGGGNDGAWAPSEGLRSGSNTYDSRTATAATAPSTAAGDSYGYQEVSTSSTTDRNNAAAGRQYMYSSRSSLEHAPAQPASPEHMYGLTSPSLLAAASQRHASSRPGPAAPASSSGLDYWEGAGPDPSASASASAASAGTAAVDEAVHALRMHREMQRLQAVQEAAAAARTPGAGGGGTVLGVSGVGFAREVWGHRSQQQLAPAPYGGEPLASSTSTLTYPWQREYVELYGGSCATAGGRTSNGSRQQPAESVAIPQTVPASPEKTRPAAQYQASPSLNSAAYDWGGRSAGLYAAGDPPATAYAAAPVAAATGQHLGGYSTLAGSSSGDGAGTVNGDYAAVRARLVAHSSGSSVSYGSGIGSGYAGPGSSSTAPAVAPAAVATVTSGGRSGSTVRLRMQDAPPSTTAAPTSLLSGAAGGGTDLPQPRSRRNHYSDILETAGRTSSRARTNGPTGNYSAAAPQPARTRDLSSSVSWRELEAEAREPAAPEAAAHAAATWPRGATSVSAVHATSTSRVRTVTQSAQEAPSPFAYDLPSLQQQKPASRTYDSRSAVPTAPDAADSAARVQARFAGPAATNRDDNVSPAPPHASRAYPRGRGGGDTGTRSNGAEPAGAAAPAASPSLSPSPSPHRHGHVSSQQLVADTDRALELYDEAQLQRAIQLSKQEAARAALAAAGMTGLTDSSSRHRDGDKDGGGDSLGPSHSPRPSSRLRSSSPLLEHLPRIGGATTPRRVAVAAAMGSKAALQDDEVGRPGSVATPSRRRLGNQEAGAAASVSPRSTEVQAPPASQAAATEEPGSSNSSSGMLVSALAPLTALHQRYADLLPLLCAKLVSLEDDFPITRRVAGDGNCFYRAALFGLLEHVLAAPDPQLAERLDLVVSRHLARLDEPQFQQQPPPTSPAANDGRGAGMSPLRLTPARGDPAFAPMHASPGQPAAAAAAAGAQVPPRDDPAAYRGGQRLLRLLRTAWFKCPDAPRPSDVSSLERLFNSVEQSGEVIRFARSLTARELMAAEEFYTPFIPGCGGDYTGLTLRQICERHVLPMGVEVEQLQIIAACTALGVTLAVLDVAGSAVGAIKHGPAAQQHGPPVAWVAHLPGHYDVIYPARPLDVAPGGQLVAAII | 0.533 | | 71 | S | 0.98 | In | 2.25 | In |
| >506bd6f7b0de07121d662c50c94e2a10fa7e8db6 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMDEFAIQGFRGRLIGPSDKDYDDARALYNGMIDKRPKLIARCTDAADIIAAVNYARENKLLLAVRGGGHNGPGLGSCDGGLVIDLSQMRSVRVDPASGTVRVEPGCTAADLDHATHAFGLAVPLGIVGSTGVAGLTLGGGTGYLTRKYGLTVDNLLEVDVVLADGSFVTANKDEHVDLFWAVRGGGGNFGVVTSFLFQAHPAKMVFAGPIFWDARDARQVMSTYRDFIPNAPEELGLFVGLKTVPPTDPFPQEHWNKRACALIGAFNGPIDAGKQLVDSLLEKLPAPLFNWMGEMPWTAINSLFDPFFPKGLQWYWKGDFVKALPDEAIDVHIANAIEAPTPFCLMHLYPIDGAVRRIGRDATPWSARDASFSMVIAGISPDPKDAEALKTWGRAYWSAIHPFNLQGAYVNFLDADEAENRVELSYGENYTRLAAIKAKYDPDNLFRVNQNIKPKA | 0.277 | | 40 | In | 0.621 | In | 0.53 | In |
| >55ebae9b3eac435ea2705db3982b60818b5f3f62 |  | |  |  |  |  |  |  |
| MKPGCTLFFLLCSALTVTTEAHAQTPDTATTAPYLLAGAPTFDLSISQFREDFNSQNPSLPLNEFRAIDSSPDKANLTRAASKINENLYASTALERGTLKIKSIQMTWLPIQGPEQKAAKAKAQEYMAAVIRTLTPLMTKTQSQKKLQSLLTAGKNKRYYTETEGALRYVVADNGEKGLTFAVEPIKLALSESLEGLNK | 0.537 | | 53 | In | 0.664 | S | 1.33 | In |
| >45254b334a46a6b8ac99bbce66778af7c9db07b0 |  | |  |  |  |  |  |  |
| GPGSMSAKQDGSTAESRKAPHSYRERVNSTVELAALVYRPLTASGALLSILRGKLYRRRSVRNVLDVVAVRSISGGQGHSAESKVRVEYLTPAEGNANGNSISNISAAPCADIRGSSDTAATSSSPSTPAQPTLLEGRCKMCLLDPTVLKATELCPDPASAAQHCTPVFLLGAAVVGSHVTRQLEAAVQAGQLSRKAADLLQQLHERLAGGPSSVSLTEDTDGSEQPQGLPRAAAAPPPPSNKRRASYTGAVEVTFTPRAVELNYQAYTMSELLSMVLPLREHADLVALSGFEQVGHIAHVNLSAAHLPYADIIGQVILDCNETVSVVVNKVDAISSVFREFKMDIIGLRRRTDSVDGNVVAGADLDDAGEAGGSLTAAERQAIALEALSPTYSLAEARVHRLLTATVRQHGCSFRVPYNRVYWNSRLSFEHTRLVDRMRPGDVLFDVMAGVGPFAVPAAKKGVQVFANDLNPVAAQYMKVNAELNHLPANALHVFNMDGRDFLNSVLFTSVTRAADASLPGHLCTGRRHVTMNLPAIAVEFLDVFQPLSSTCAPASEQRCNASAAAVVNERWNHLPAHVDPNAIDRRTLFHVYCFSAAEDLITDAVRQVEVNLGYTLPPENIEETLMVRDVAPTKRMMCVSFTLPPAFWKNLLASRPGQGGEPGGAHAETASTLVEVEQAAKKARPDKM | 0.626 | | 44 | In | 0.983 | In | 1.06 | In |
| >fc5928b32a52e92ba44498ffc838f5ece82835de |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMEIRHLATFLKIIETGSYTAAAAELGYTQSTITSHMQTLEQSVGGEVFTYFNRKLQLTALGKELIPLAEDLLATHDKIKNMQKTDVLCGTLRVAAPESLTISRLGPVIKRFSQHHPDVKLILTNGTCGENQEELLNGRVDVAMMLFPAMAVEKCLHHVLTEEKIVMVGAPDAPEHFKDIQKKQSDHVYITNEQGCSYRTMFEQHLTKQNLLSFQTMELWSIGAIKKMVMSGLGFAVLPYITVQEELENGSLKIIKQDEAFEPIYSHILIKKKKWVSPIAHAFMEAVIDAIPKQVDWTADVEANSFKE | 0.211 | | 95 | S | 0.696 | In | -0.63 | S |
| >cea4d0bbaaae7ef2e88ef41d3add3c496fc378fe |  | |  |  |  |  |  |  |
| METEEKVEEEVIILNSSINNVSQDDEIVLDYEEDLLEDPLDEPIEQKEPKAAEPTPKQLQKVEASTPQATPSKAASSSAGSGKSMLFGDDVKKTSIWIRGMTPATKASSVKQLASQYGKVIQSKIFNSKAADANGDVKNCFALIQFADVTAMELAMTSLHQKNYQGRVLRVEKVSESHLTSSAEKLAREKHVAEAASTMSTSPAPTPTPEPVVTTTTTTSAAPKRKEPIHAPESSSSEGQRAKRRAIEAPVRSRSRSRGGGGEPRSSRKPITFDREEESNRDSRRTIAAAPPARTSRMARSPLRAPLRAARGSESSRSSTRGGGGGGESLTISSRVDTSGCRGGAIKRSVERSVPNNISTSELRRKHHQIHVTVQQDAPRASYQTEQYARERSSSTTTSSRRRQVSPDRSEQRRHRDEPPPRRAPQEQPSRRRGASPPEPPRRQEGARRSEEPERRRLFDEREQLAHIMAAKDMYAEQQKIRAEKALIAFQMQQLEKKKLEAELQIAQKALLMQQAALGGGGALVVDGGALVAGGGAVGYHHQEHRSSYGGGGSSSNGGSSNRRRQTRRSPSPPQQHHSSSRRQRRDSGGAGRYRQSTSSSNSNRNSNSGGRNLVVTATTTNNTNATNAGRSYGIQSVPDASSYSTNNYQQRSSAASAYDLQITATMPQAGAANSGAAYHQPYGNVYQHNTAAYPVWGGLDAQGHMAMDTNWSQNAATPSTSTSSGGGGGQQWQQQSYGSNQHQHHQNNNSSQPSSSNRRGNDYGNYRGNY | 0.466 | | 90 | In | 0.982 | In | 2.99 | In |
| >8daa79360e230ddd06c1368d078155d3f4f0a5b5 |  | |  |  |  |  |  |  |
| MNIDGLDALLNQFHDMKTNIDDDVDDILQENAKEYVVRAKLKAREVMNKGYWTGNLSRNIRYKKTGDLQYTITSHAAYSGFLEFGTRYMEAEPFMWPVYEVIRKSTAEELKALFELEHHHHHH | 0.715 | | 69 | S | 0.576 | S | -1.41 | S |
| >ea2ffcc38bcd3351038551426b956cbe32c8b5fd |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHAQEDNSKYLAGAVPVVNGKVIFTEVIQASDMSKRQIYDALLKWAEKRFTPSKGQKGRVAYFDEKKGQIACLGEEYLQLSATNSFFLDRATIKYRLVINCLDGSCKMEMYNISYFHGDDTEMEAEDWITDETGLNKAKTKVVAKYGKLRIKTIDLFDDLTEQVTKTLGGAKSEVPLLAKEPKVTPEVFDRELPKAVEQGAMAGYKHIPADKIPGNIIKMLSEDWMLITAGTEDKYNMMTASWGGLGYLYNKPVSFCFIYPTRYTYQLMEKNDTYTISFYTETYRDALKYCGSHSGEDVDKVKGAGLTPLTTPSGSKAFSEAWMIIECKKMLSQPITPGAFDTPELKEAWKDKSLHTMYIGEIMNVWVK | 0.383 | | 85 | In | 0.573 | S | 0.18 | In |
| >8adf3da2815a19abf04b305fd475b1ac2bd84e32 |  | |  |  |  |  |  |  |
| MSKAELAVLERRLRPIYDSLDSQQFKKALSDCDKVLKKHPNTSAAKVLKALTLIRLEKLADATEILEALDVPGAHHDELTLQAFVHCYRDSNQHMKVVTLYERIIQVDPSEHNLTQLFMAYSREKMYKEQQKIGMRLYKDFGNAPYYFWSVMSLIMQAQENPELGKKMLLPLADKMCQTQVEKSGYTEGSSAELDLQLLILEGQEKWKECAAFLDRPQASVLPMAPYNLVEKGMDFLMKDKQYKRVDQLAMEAVTKMPDNWNLWKIITESTICQIEQCLESDNKENIELAHNFVKRLGLLIEKVQKQVGYKSRAPFIATFFAYKQIGKLTKQIPDMDDMTSIFGEQVDKMLEYAKNFYKKPVCFADLQMFFCDLTSEQKSNFLKGIDLWIGEVSAKDDVEGDESKVWAIILTERCRRALGEYEKMDAAGHRSLFQQCIAQIAAPERTEHAQGVLCNLTVSHLWDAYRKENDLTKFYEMILLLEFVAASNKTDPMCKLALIRAYSALCATGRISALVKTLDIKVIQMDTLGHLTFPVYETSGRFNLAIIQNTQLSLMYEQAEKEIQDCIAQAYRNGKFSAIPRMTAASKHMKLSAQKTACDVMNRYLSSLFVLDDVDQITVTLWGDEDPIGEKRIDWKQLIDTRDFNAIPYTETEEYEALLDDMKKRTFKELIDISELRSTLCRALGAVGRVTHENMEPRLARLQLKMTVMEFKQHLEYCCREYPSFLIPSKLAQSPAPHHLSQWVHSGGLQMVLEYLEAAVKLVDILDSGEHPEKSLVGTRTEMATKLIKLIEIPPKRKEGEKLPPFWIVDPIIKSSRALQTIAAIQVVLRLIEKVVLKLVKNVPTAVPEPVGKGKGKKDKKAAEEAMTKALDECKAVVFLEHIRAMHVELRSAGNFLHTYLGQMLALEDEYIPSNIGEDLGGAKAALEGMHNPVASRLQRSFLNTCEDMHTTIKLRF | 0.542 | | 88 | In | 0.811 | In | -0.36 | S |
| >8b5cb28c434f5cdffe80327936b95877f1da73a0 |  | |  |  |  |  |  |  |
| MENKLSGVLAATLALTMSLPTGAIASSSSKTPVVSSQEVASKDLEKIAAENAALLTKSYETTSVQYALIDNGKLILSGQTGKNDIEGKEPLTKDTLYGIGSTSKVYTAAAVMKLVDEGKVDLDASVTRYIPEFKMKDERYKRITPRMLLNHSSGLQGSTLNNAFLFKDNDVYAHDILLQQLSNQNLKADPGAFSVYCNDGFTLAEILVERVSGMSFTEFLHQKFTEPLKLNHTITSQDKWEDEKRAGQYSPTYQGQLPSEMVNVIGTGGISSTAEDVVRFSQIFMGQGKEILSNKAVKAMEQEEYKKGMWPGDSGNVFNYGLGWDSVKLYPFSEYGIKALTKGGDTMLQHATLVVLPEQKMAAAVLSSGGSSMTNQLLANKLLLARLKEKGTIKDIKPDRSFGKPVKAKVPQDVVKKAGFYGNSYSHFKIEITKKGELFLPTKPEEKYVYTADGSFINEKGTSKLNFVTEKNGKVYLRESAYELSPGLGQNVLTHYLAQKLENNVLPKKTAAAWAKREGGKFYLVNEKFNSINYLGQQIPLNTQITLKDGYWDGKKITGPNTATHQIQIPVMNGRDTKEAHFYTEDGTEYMEMSSFLYVSESNVKSLDTGQLSKVTLQKSGHAKWFTIPQEAAGKTMNVELPSGSSFAVYDENGVCVNFSVVSNNNKVKLPENGTVVFAGAPNSEFTVALN | 0.737 | | 87 | S | 0.675 | S | 1.55 | In |
| >3e564d3b791c6f8db6ae2533a7668b1fb5dacf71 |  | |  |  |  |  |  |  |
| MARNEPSSQQPSSSGSNGTPAQQNGSAKPSKVTVKVVNASFTKAADCYVEITSDTSSAAPKKTTVKKKTMAPEWNEHLNVHANESSTISFRLLQKAKLFDDTCLGMAKLKLSSLTRNENGEFKNDINNISLLAKDSSKIGTLNIIFSGYPERKRRSAGVRAETAASASSEASTSNGVATSSSARRPATAKRDTLAAPTSTAAAAAAATAGGTPAAGAEEQLPDGWEMRFDQYGRKYYVDHTTKSTTWERPSTQPLPQGWEMRRDPRGRVYYVDHNTRTTTWQRPTADMLEAHEQWQSGRDQAMLQWEQRFLLQQNNFSADDPLGPLPEGWEKRQDPNTSRMYFVNHVNRTTQWEDPRTQGFRGSDQPLPDGWEMRFTEQGVPFFIDHQSKTTTYNDPRTGKPVGPLGVVGVQMAMEKSFRWKIAQFRYLCLSNSVPNHVKITVSRNNVFEDSFQEIMRKNAVDLRRRLYIQFRGEEGLDYGGVAREWFFLLSHEVLNPMYCLFMYAGNNNYSLQINPASFVNPDHLKYFEYIGRFIAMALFHGKFIYSGFTMPFYKKMLNKKIVLKDIEQVDSEIYNSLMWIKDNNIDECDMELYFVADYELLGELKTYELKEGGTEIAVTEENKLEYIELLVEWRFNRGVEQQTKAFFTGFNSVFPLEWMQYFDERELELLLCGMQDVDVDDWQRNTVYRHYAPQSKQVTWFWQWVRSLDQEKRARLLQFVTGTCRVPVGGFSELMGSTGPQLFCIERVGKENWLPRSHTCFNRLDLPPYRSYDQLVEKLSMAIEMTEGFGNE | 0.563 | | 23 | In | 0.986 | In | 0.91 | In |
| >fbffde96ae97908796a63add1832809183d0d037 |  | |  |  |  |  |  |  |
| MSEYLGWHNRKPAAGSRGNSSFDRDIVPGGAHTKSYESYVKNIFHPTNRLRAKDKDQLVRDHGLSATSMLRAEREFGRSALDDKYDREHFFEKMPLESLYAELGLKNPAASNYRSFQVYEPKSSSEYFAASYEAERERRKKDLERELASYDKEDYEDFTGEPKKNLYSSISSYRPPLSSYKSREDEEYEKNNRKTLIDYKDFDSSPLSPYLYQSHPYVRSQDSRIIGSNFVQLTSRPKDKFISKIEETLAMVRDMPRY | 0.488 | | 76 | In | 0.974 | In | 1.52 | In |
| >83466e3bfce4b8a3eddf6490962048d3604d6b3e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMISRMLGWSCATMICRCRTVAEPQSFAQDELSLDAFLGGQIKLLQPKSGYRAGVDPVLLAAAVNAKSGDSVLELGCGAGQAFLCLAARVSGLSIVGVELQPAYAELARRNAAVNAVPAEVVVADLSNLPATLRQRRFSHVIANPPYYRAGAHSQAKDPGRRTALGEGTPLELWFDVAARRLTPKGYLHMIQRVERLPDMIAAAQGRLGSLEVLPLSPRVGRATELVILRARKGGRAEFRLHAPLVMHQGDAHHRDGEDYSPAVRAVLREGSALPWPDIGRN | 0.247 | | 28 | In | 0.859 | In | 1.74 | In |
| >6d1840877f3d559d464ecd87584a863379d37549 |  | |  |  |  |  |  |  |
| MLKVLLTLMLSTNFRNTCARFQIKPNVHYLGETHWQLFNECSQGMLQSFLGSLNTRGYPDKHCLTDWNVVGEWDGKFRLQHAQSRKFLCFNKRARITLRFNGSDAKCTFIEEVRDNGFSRLRSSWKPELYLGFNGRGRFQNPLSYHLKPRCFDWIKLVRYVAESEKSVCSTPPKPKLSPSPLEHSSFVHHAVRSNFLKKVSATHDSLYRTMKSRKS | 0.379 | | 20 | In | 0.835 | In | 0.51 | In |
| >174bffff43bce0874610ddf2b7fbc96be47357ce |  | |  |  |  |  |  |  |
| MLDKNQLAKYKQDHLCEYEKIMSNNEKEALEEKVASLDLDFIAKLYNDLYINKKTIDDVSAVSEVKYDIKSQMSDDEIKRLEEQGLQAIKEGQFAVLLMAGGQGTRLGYKGPKGSFEIEGVSLFELQANQLKTLNHQSGHTIQWYIMTSDINHEETLAYFEAHSYFGYDQEAIHFFKQDNIVALSEEGKLILNQQGRIMETPNGNGGVFKSLDKAGYLEEMSNNGVKYIFLNNIDNVLVRVLDPLFAGFTVEHDYDITSKTIQPKPGESVGRLVNVDCKDTVLEYSELDPEVANQFNNANIGIHAFKLGFILNAVNRELPYHLAIKNLKQLDENFGVIEQPTLKFELFYFDIFTYGTSFVTLQVPREEEFSPLKNKEGKDSVATATEDLRRMGLI | 0.601 | | 89 | S | 0.663 | S | -0.96 | S |
| >87701f6dcb7234ce165a164ce64f824e2e393dcf |  | |  |  |  |  |  |  |
| MKKNILNLALVGALSTSFLMAKPAHNANNATHNTKKTTDSSAGVLATVDGRPITKSDFDMIKQRNPNFDFDKLKEKEKEALIDQAIRTALVENEAKTEKLDSTPEFKAMMEAVKKQALVEFWAKKQAEEVKKVQIPEKEMQDFYNANKDQLFVKQEAHARHILVKTEDEAKRIISEIDKQPKAKKEAKFIELANRDTIDPNSKNAQNGGDLGKFQKNQMAPDFSKAAFALTPGDYTKTPVKTEFGYHIIYLISKDSPVTYTYEQAKPTIKGMLQEKLFQERMNQRIEELRKHAKIVINK | 0.65 | | 99 | S | 0.648 | S | 0.87 | In |
| >fa926cf029f3c1e7afd9e11cb41692f2a30e2368 |  | |  |  |  |  |  |  |
| MTVVWINGAFGAGKTTTARELIELIPNSTLFDPEVVGGALAHLLPPKRLAEVGDFQDLPIWRRLVIDTAAALLADLGGTLVVPMTLLRQEYRDEIFGGLAARRIEVRHILLAPAETILRERIASREVPRDLPDGELRTRQWSYDHIEPYRAALASWLTADAHPVDTGALTPYEAAARVAEAVGSGAVPACEIVQTPEPTGETVAAGVLLFDERDRVLLVDPTYKPGWEFPGGVVEPGEAPARAGMREVAEETGLSLRDVPALLVVDWEPPAPPAYGGLRLLFDGGRLDAADAGRVLLPGPELRDWRFATEDEAAGLLPPVRYERLRWALRARERGAAHYLEAGTPVGLEHHHHHH | 0.642 | | 61 | S | 0.54 | In | -0.97 | S |
| >e8615d8befd6fcac0f62917d80c85e26512b6176 |  | |  |  |  |  |  |  |
| MPLSVGQGYFTSSISSEKFNAIKESARLPELSLWEKIKAYFFTTHHAEALECIFNLYHHQELNLTPVQVRGAYIKLRALASQGCKEQFIIESQEHADKLIIKDDNGENILSIEVECHPEAFGLAKEINKSHPKPKNISLGDITRLVFFGDSLSDSLGRMFEKTHHILPSYGQYFGGRFTNGFTWTEFLSSPHFLGKEMLNFAEGGSTSASYSCFNCIGDFVSNTDRQVASYTPSHQDLAIFLLGANDYMTLHKDNVIMVVEQQIDDIEKIISGGVNNVLVMGIPDLSLTPYGKHSDEKRKLKDESIAHNALLKTNVEELKEKYPQHKICYYETADAFKVIMEAASNIGYDTENPYTHHGYVHVPGAKDPQLDICPQYVFNDLVHPTQEVHHCFAIMLESFIAHHYSTE | 0.518 | | 88 | In | 0.539 | S | -0.42 | S |
| >0f9956090df7d48448bd4b55cb179d1249806f31 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTEKQVAKKPIEKLAIVVVTYKRQQLLATLFESIEKLTVAPWRIIVVDNEHSDKTHGMVEEFSAKLTAQWGTTVADLSGNENRVVYAPQTDNLGGAGGFSAGVKKAYELGAEWFWVMDDDVAVMPEGIERLAKWTDRHDVIQGSRYDYDGGPFYWQYDFIVPLGIPNPIAPAAFGPAGYRVMDTLCFEGGLFRRNIVEKIGLPDPRFFIYWDDTMYGYRASKVTNPIVVPDVVLRRTREIGNWDIAGVRQLNSTSDMNRYHIMRNRGYMARYFMTYGDYRPLLFGLGTALTAVKEVIRLTMVDREHFKTGIVQIAKGWWDSRKLLHDPEWQPMPPLK | 0.152 | | 17 | In | 0.782 | In | 0.5 | In |
| >60937674fdd1b97cc91fe52ba7c601822f184761 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLFKRLYPKHFVASIYDIDLEMLKRNGVKAILTDLDNTLVAWNIADAPDELVSWLDMVNNQYGFDVIIVSNNNGDRVKKFADPLGLHYIAPARKPLPIGFKRALTEFGYHAKEVVFLGDQLFTDVLGANSVGIEVIHVQPVVKTDGVVTKFNRLMERLIFRRMKRKGIYKLTQRVKEDPAVLKHPIETLRQDKQQ | 0.128 | | 78 | In | 0.602 | S | 0.96 | In |
| >4659896e6dc925c85f60300354286a671e60ea47 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPSRQLQILIRKTLPLVPDHVLIIGESGIAFSKATNLLGQEFEHILFDGRNGIHLEALAIAAGTLKMGGTLCLVLSDWENLSQQPDQDSLRWNGNQSAIATPNFIYHFKQCIERYHFPILREESAVEFPTVFYSNEHHKNATLAQQQIIENILQAEQDIYFLTAKRGRGKSALLGMLANQIQAPVYLTAPNKSAVHSVIEFSEGDIEFIAPDELALTLQTEPEFSQSAWLLVDEAAMIPLPLLQEYSRYFQHIVFSTTIHSYEGTGRGFELKFKRKIHRTFQHFELKQPLRWQENDPLEHFIDDLLLLNAEDDFQHFDYSNITYNIEENAKNLSFPCLRGKVPEGPKGGFRYS | 0.166 | | 52 | In | 0.579 | In | -0.43 | S |
| >de6b440fd3fcfd4a908f48a869a228ba5cbf75a5 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMAGTRWISSSNARCARRNSAICSAISAGESVSTRRAYTTPGDLRHPACQPGGGCDNAGAPLGKRRRASPHHCRAATAVEKGVCTMRLRSSLLALSLLTASGLATAADVTKYDGFLCCNLRTDGSWISDSNYAEDGKRVLAVGTPVSVTGFGRNRVNIKVAGEKQSIGNDYSRDLDNTAFAARYVVTADPKLKLATFPPKIRLAITEGKLTGGMTREQVLMAVGYPISSENPNLDASLWRYWRTSFAEYQVQFGPSGKLVKVTADPQLMNLVWIP | 0.186 | | 28 | In | 0.97 | In | 1.83 | In |
| >036723981dacebf12094ed013611c67e55284e8c |  | |  |  |  |  |  |  |
| METCVLMQLKNCIKCSIAHILRYKRQKCSNFKQESINFRHFTDRLTRIRRGISTLRR | 0.261 | | 83 | S | 0.797 | In | -4.36 | S |
| >4d52b4e34542e84c1736e9ac02d2771fe8841753 |  | |  |  |  |  |  |  |
| MAKLTLQEQLLQAGLVTSKKMAKVQRTAKKSRVQAREAREAVEENKKAQLERDKQLSEQQKQAVLAKEFKAQVKQLIEMNRINVSKGDIGFNFTDNNVIKKIDVDKLTQTQLINGRLAIARLVINNSGECEYAIIPASVADKIAQRDADSIVVNSALSQEEQDEDDPYADFKVPDDLMW | 0.381 | | 97 | S | 0.6 | S | -0.27 | S |
| >ff84fd990b2ee0a3416fc8714bf1e8c85ecc548e |  | |  |  |  |  |  |  |
| MPEALQIASLILHCRPERLPAVKANLALLDGLEIYQESPQGKLILVLEAEREEQILDTLGQLQNLPGVLNAVLVYHEILHDDDSNDAAAMTDRAIPCSPEETIDEPHPS | 0.59 | | 93 | S | 0.805 | S | -3.28 | S |
| >0c6898c0b1ffa46e8d94f43e544adb763cc683df |  | |  |  |  |  |  |  |
| MTSYEKEFTTLFSKIAPHFRRSELFYDFITIFGLEFYLAIYSKHANEQLVKRYQTAVSHYTAKEKQQLSQLFVIIINALEQKTYDFLGTVFMALDLSDGYKGQYFTPPHIAQAMAAMTLMDCHSIIEKRGFMKLQEPTCGSGVMIIGSYNHLRQEHFNPQQQLWVRAQDLDFTTAMMCYIQMTLLHIPGEVIIGNTLTDEVCYHLYTPAHILGNGTMRLNNMTESEVEAQHNTDTVNNPPFEIDWETEAVFY | 0.324 | | 45 | In | 0.503 | In | -1.25 | S |
| >52a9bebcedcc562c01806036006e172d060ba7ef |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSLYDVAIVGAGPVGLAAAIGCKRAGLSYVVLEKGCVVNAIFEYPTYMGFFTTAPELEIGNHPFVTGHDKPDRRDALMYYRLVTQRENLNVRQYTTVNKVHAAPAGFTLEIEAQDGTPGVVEARRVVVATGYYDNPLSMGIPGEDSENVSHYYTEAHPFMGLNVTVIGAGNSAADAALDLWRSGVNVTMVVRAPELKSTIKYWVRPDLENRIKEGSIHAHFNSRVVEIHPEHVVVQGEDGRTFELPTDFTFALTGYRPDLSFLDGLNLATQPDECLVLTENYESSVPGLFVVGSAGFAGKTNQVFIENGRFHADHAVAEIERQLRSGELRPA | 0.172 | | 51 | In | 0.531 | In | -0.17 | S |
| >7be69a8323e5171cd71e56be1f1e6c8deb6babbe |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMALSFTVKEATFKEADLVGHIVESVKKIFSTMIFIDDIVDEYPLAKPESHFIASISGMVGLGGDFSGMVGIHIPIEFAKEATASMLGMELDELEGEDDIHDAVGEITNMLAGEIKMLFSANNLTVGLSTPSIISGSDYTVEVVSSGAAVVVPFNRNEHRFLATLQIEA | 0.113 | | 94 | In | 0.759 | S | -1.87 | S |
| >21ed194183484473aaad46d125b6d4cddeec49fa |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKIGMCMFLWTTAVSKKHEPLLRDIKATGFDGVEIPIFAGMPDDYKKLGDLLDRIGLERTAVSAMGDPTMNLISADAGTRKAGIAYMKWAVDCADALGARTLSGPLHSTLGAFSGSGPTPAEKNRSIASQRAIGDHAGTRNVTIGLEALNRFECYLFNTMADLSEHIDAVGRPHIKAMYDTFHANIEEADPIGAYTKHRRNVVHIHISENDRGVPGRGNIPWKETFAAIRKSGYDDWLTIEAFGRSLKDLAAATKVWRDFSETPEAVYREGYKHIRNGWKKAA | 0.159 | | 34 | In | 0.628 | In | 0.95 | In |
| >072a1fdbec1979c67cb38abec580465a2cb57c40 |  | |  |  |  |  |  |  |
| EEIVAAERLARSIIEQAAEAIVVCDTTGRITYFSNTVSKVCKCDPAFKRFEDIIDIRFSEGKDAGKSILPVSSALKGDTILGLEAILEYKSCQKFNQKLHLLLNSGPLRNSNGRIIGCVVTLTDIT | 0.801 | | 77 | In | 0.643 | S | 0.59 | In |
| >23415a5cc5f3114cfd24a9764fadaef583b1473d |  | |  |  |  |  |  |  |
| MGHHHHHHSHMDRSGLPDLQGRFELSGKNRQYPLDALEPQPSIGDIKDIKKAAKSMLDPAHKSHFHPVTPSLVFLCFIFDGLHQALLSVGVSKRSNTVVGNENEERGTPYASRFKDMPNFIALEKSSVLRHCCDLLIGIAAGSSDKICTSSLQVQRRFKAMMASIGRLSHGESADLLISCNAESAIGWISSRPWVGELMFTLLFGDFESPLHKLRKSS | 0.358 | | 68 | In | 0.584 | In | 2.06 | In |
| >a7752cb5e0c7016abee411cd9734e05851c8dae6 |  | |  |  |  |  |  |  |
| MPPEVRGNKRAFFDISINGEPAGRIVFSLWNHCCPRTVENFRAFCTGELGKMNGHYASYQGSVFHRVIKGFMIQGGDITHGNGTGGYSIYGRTFDDENLALKHKKPYLLSMANRGPDTNGSQFFITSEEVPHLDGKHCVFGEVIKGVEVVKAIENLETGNEDKPVCKVEITHCGEMVRKGDVVGNAGAAASEPEPTGVKMEDEPKTRNWLMRYSKSPESREEKKKDKHGREEKRDRRRRSNDRHGRDRRSRSRSQSRDRNRRRDDRSGRDGRVGRNERDDRSGRDERRDDRRSSAPVNVKKKTQMKSPNFVHAPTKDGIKVRGRGKLTFLGGRTRSTTPPHWKREESKKLTLEAHQKRQEELEERQKRAAQREKEEAERNARLEKERVERQNQRELERQKQEAERELKRQQENEESGNRRRRRSSRSGSENDESELEEPKNRSASPRKRSSSSSSSSSSGHSSDSD | 0.693 | | 96 | S | 0.969 | In | 1.77 | In |
| >7192b489c773a40b3d92dbc8849682c6072db62d |  | |  |  |  |  |  |  |
| MYLNSKLPAEPRNGTIKIYENPARTFTRPYSAKNITIYKENDTFYTGHRVPVSNHRYKTLDVLMDDLNQHFYIYDHLPYFTLIFHCLAENIFNSNDF | 0.499 | | 7 | In | 0.763 | In | 0.9 | In |
| >d53aa04286223ea2dc1ddade938bd3ceff271f0f |  | |  |  |  |  |  |  |
| MGRVECEKICSLWPCEQPEEFRNVWVVAELDEQGVSEASLQMLTPARRIADKLGESVVGVIAGPPGSSQLAVEMVERGADEVIVVEHERLSEYYPDVVGSVIVELSLKYKPSVILFAATARGREMAPYVANTLKTGITADCTDFDVDPKTRDVLLIRPPFSAIMLAYIRTPFRRPQIGTARPNVFPLPERQPGRQGRIVREEVEPPEPMARLVNRVRIPRSEVPIEKAEVIVSGGRGLGTPEGFRVLEELASLLGGVIAGSRKAVDAGWIPPERQVGQTGKSVKPILYIAVGISGSAQHMVGVREARRIVAINIDENAPIIRQADYSLIADYREVIPALIEELRRLKEERSRYLEELLGPEALRTAPQGGGS | 0.465 | | 94 | S | 0.602 | In | 0.66 | In |
| >b2b42addbdfdaa1adc228b09d534e16bbc633d4c |  | |  |  |  |  |  |  |
| MNAASRNEKKASREVDRIREEVSNEKSEAQRQLEAEKRARQEMQRKKLEKEKELAKKRKEREEDERRKNFTIPKRNEGPSSSSSSNVNSAAVRAVLERQRAEKEAKEKKLDSEKQKLMMLRMQANGGKATKKMGKQFGLDVISLQTRFGGNNEHLETLQKRKWKEEEDQDMEADRYRNGVYKALAAKQKNEGALRATVQGPHRVSTSKSNSLAGLCSRHERTRDTFSPPKDGKKVPERREPVVEKKKIQAAAPIDFRSLMAAASDISEGKSVNLDHLKTKPAKSTLDQHQKTSSTSSNGNQKSGLSSSEREKLREKEKLKEKQERQREVEKLRIKEKEREKARAASSSSQKSSKPSSSSHNNGSTSSNGHSAPAKKEVRKPFQKGPTPPPLIPVAIPGKKYLPGDVRYKEQQALMKAIAAAPGSSRNAPSSSNSQSSKNHIQAVREAERQREKEREKQKSLKRARGDQMMKEYEREKKIQKTSEKPGPSSSSHKQSSSSSSKSNGDTKRSYEARRMAELREQQMREKERKKKKAMNRERDSRGGGGSFYKGGDDYSDEEMDEDEYDDEDDFSDMDDFIDDTEMNMDGMCRKDFEDTLRMVNRKYDTDKWSRREKTISERDMHSNYRRIQSEENFSKRAGFMEDIKEASKGRSVKL | 0.79 | | 50 | S | 0.974 | In | 1.21 | In |
| >adafbd5540107a8e691e1d0c7f6ad0f9933d0f85 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMQPNDITFFQRFQDDILAGRKTITIRDESESHFKTGDVLRVGRFEDDGYFCTIEVTATSTVTLDTLTEKHAEQENMTLTELKKVIADIYPGQTQFYVIEFKCL | 0.139 | | 89 | S | 0.715 | S | -2.52 | S |
| >61dcaef68f39ad96461a72468b3c2539c66505a6 |  | |  |  |  |  |  |  |
| MGGSHHHHHHGMASALFGSSRGGVRGGQDQFNWEDVKTDKQRENYLGNSLMAPVGRWQKGRDLTWYAKGRAPCAGPSREEELAAVREAEREALLAALGYKNVKKQPTGLSKEDFAEVCKREGGDPEEKGVDRLLGLGSASGSVGRVAMSREDKEAAKLGLSVFTHHRVESGGPGTSAASARRKPRAEDQTESSCESHRKSKKEKKKKKKRKHKKEKKKKDKEHRRPAEATSSPTSPERPRHHHHDSDSNSPCCKRRKRGHSGDRRSPSRRWHDRGSEA | 0.728 | | 95 | S | 0.843 | In | 0.84 | In |
| >756abebbbbd61717358eafab47aea4dbe4d62108 |  | |  |  |  |  |  |  |
| MRTLYHPNREEIQFSSVLYALSDQIRLQIVNMLLEKNEQSCGALNIPVAKSTLSHHFKVLRESGVMYTRLEGTQRFISIREEDLNARFPGLLQVVLHATEPY | 0.498 | | 28 | In | 0.529 | S | 0.58 | In |
| >90a7be03a587928e2b50f1e7e79f1ad4abac8286 |  | |  |  |  |  |  |  |
| MRRMRREDCPYPLLVMQQLQERNLLPVIYVIFSRRGCEQAAQSLEDLSLVEPAEQESIQLQLLDFFFGKNPLLRQKLERDLANGLPDLVQAVVAYLDHPQDSEAAQRLLTALAIDPEGMFKLWGWIAQSSPMTRFEQIEPLLRGIAVHHAGILPDMKTLVEKLFEQGLIKVVFATATLSAGINMPARTTVISALSKRTNEGHAMLSPSEFLQIAGRAGRRGMDTEGHVITVQTPFEGANEASYLALAEAEPLKSWFTPSYGMVLNLLQKHDLEEVKSLLERSFAEYLAQFALEPTKVAIAETVKKLSQLDIKLAGIGEKDLRSYEKFRGRLREEQRLLKILEEQAEKERKQQLKDQLKTLAPGQLLYLKGRHVKIHQPRLAVIVAPLAPAHNLPQWCCLGSDNRWYHVTVGDIYAVPIGNLSPAQWQHLTPPPAELLAPGKSVKGDEETLAIAAGLDPQTYPLEPSPELVEQQARVDHVEKLLAVHPLASQKHPGKLLEQFHQRQELRKTLSKRQQEYDRLQSRQSYYWQEFLDLIDILQEMEALEEYTPTLLGEVAATLRGENELWLGLALISGKFNDLEPEQLAAAASALITETPRSDAWTDFKPSPVVLAALRPSNDLFGLLFCLKHPQPPLALWQAMTVADHLQRLNLWDLRRKLIKAQNQRAIAIPLWLEVDFMGLVEQWALGMEWENLCRQTSLDEGDLVRLFRRTVDLLWQIPQVPHLSPRLKRNARIAVQQMKRFPLLEHHHHHH | 0.454 | | 49 | S | 0.72 | S | -0.18 | S |
| >deb1dba1e6b636f1372865d214e80e47a725baa1 |  | |  |  |  |  |  |  |
| MTTILELTSANKTNNKATNNKLQREGENEYPPAKRSKTDDEEEPTVVGNGTIVGAPKQQTLSGVNQSGNVNVETTKNTEGQDGEKMDTSNNAGGVGGNSDELLDKNLYSRQIYTLGESAMVNLRTASVLISGLGSVGVEIAKNLILGGVRHVTIHDTKLAKWSDLSAQYYLRDADVGHNRATSCYERLAELNDSVNVQVSTDELTEEFVKTFDLVVLTDAARTAQRQIAAWTRAHNRRILITDARGVFSYIFNDFGDNFRIDDATGEQVREFFIEHIDKTTGEVTTLENLFHGLEDGDHVTFSEVKGLTEINGCEPLKITVKNASKFNIGDFAVSFSDYKEGGRCRQVKVPTSVSHVPFEKSLVEPEFGIWDYAKFEYPSQLHALWTALYAFEEKYGRSPAPRSTQDAALLKELIPSGTEEIPEKLIELFSFSASGNLVTVSSVVGGIAAQEAMKGVTHHMTPLKQWLHLDHVEVLPGDWTSFDNSKLSETDCQPRQSRYDGQAAVFGWPYQECLFRQRWFVVGAGAIGCELLKNLSMMGVACGEGGLIKITDMDQIEISNLNRQFLFRRRDVGGKKSECAARAVTAFNSDVRIEALAERVGLETEHIFNDEFFGELNGVANALDNVDARRYMDRRCVYYRLPLLESGTMGTKGNTQVVYPYLTESYSSSVDPPEKEIPVCTLKNFPNEIQHTIQWAREQFETFFAQPGEMANKFLSDERGFNEHVDKLISGQQIDILQKVKDALIDARPSSAEDCIRWARNQFQELYHNNIAQMLHSFPPDQLTDSGAKFWSGAKRCPHVLNFDPSKEEHFNFVFAASILIAELYGVQPILDREEVIRVALSVNPEPFEPKSGVKIAVTDAEAKEQNERGASSMIVDDDAAIEALKLKLATLNVKSTSKLNCVDFEKDDDSNHHMEFITAASNLRAENYDILPADRMRTKQIAGKIIPAIATTTAAVAGLVCIELYKVVDANGIPKTPMERFKNTFLNLSMPFFSSAEPIGAPKKTYMDREFTLWDRIDVQGPLTLQEFIDNVQNQTGGCEVSMLSAGACLLFSFFMNAGKKQERLKTEVKAVYEELLKKSLHPSVHALVLEPMMSDPDGEDVEVPYIRYSF | 0.348 | | 66 | S | 0.987 | In | -0.29 | S |
| >093e6db26e4b759db90b957bb5f55f85924f93b0 |  | |  |  |  |  |  |  |
| MVNVAVLIKQIIDIDQMKTDSEGKPILTGIPYRLENLSKNAIEAAVRIKEKYGGKVTGIIFGTEAGTSAMKESYAMGVDEGILITGYKGNNPQVTAKAILNYLKQIPFDLVILGDQSADSYTGMLPGLISAGLGIPLLGNANNIVVDGKTVRITQVGETENAEMESEMPAVVSVKQEINEPRLPPVLQIMAAGRKPIRTEKFEDLSAT | 0.582 | | 74 | S | 0.843 | S | 0.69 | In |
| >c8763caf4d9e05304baec35f0c1d0fe3b54511ae |  | |  |  |  |  |  |  |
| MKKTTSILLSMALVFSSFGALSAHAESLQKEKQFSPQLKTTIEQWGESKIAQHVETKTTKEISVIVELQHAPLAAQSNIQHAPDLQNSHAQSYHTELKKAQEETTKKIKEKAPGAKIKEVYNTLFSGFSISVPGDQITALASLPEVKTVYPNLTYKLHETTKSATSEEAPNIGGPTIGAPEAWNLKDPSGKSLDGKGMKVAIIDSGVDYTHPDLKANYIGGYDTVDEDADPMDGNVHGTHVAGIIAGNGKIKGVAPNASILAYRVMNDGGTGTTDDIIQGIERAIQDGADVLNLSLGQDLNVPDQPVTLTLERAAKLGITAVVSNGNDGPKPWSVDAPGNASSVISVGASTVSIPFPTFQVAGSSKTYQGLSLSKSDFPIGNDSPLVYVGYGNPSDYAKQDVKGKFALVLQGTSSTLVKAEQAKQAGAIGVLFISTEKEMNSMPEYFTRENLALPVMQLSNVNGEELKNLITKRKKNIKIGQPVPTELIGNFSSRGPSQGSWLIKPDIVAPGVQITSTVPRGGYESHNGTSMAAPQVAGAVALLRQMHPDWTTQQLKASLANTAKTLKDVNENTYPIMTQGSGLINIPKAAQTDVLVKPNNVSFGLIKPNSGKVKLTQNITLQNLSSKKKSFSTRVELLDTNTKTKVKTSVPSSISIQPNSSTEKPFTITVDSSLPQGVYTGNVYVKEQGAKEETRIPFTFSIDPKDYKRIDGLEIINSTFSPNGDQILDDNLINYYLVAPVDDVTLHANLVTKERVTYQGIIHQAKNETAGYKPFKWDGTKADGTPLADGLYQIEAVASNSGGETKQTAAVFLDRTAPKLTYEIDQENLVITGKVDDILLDWMTESGWVAPGIPVRLQYEINGNGVWESAFLNPWEKNYGIYLDRTQLQEGKNTIHIVATDAAGNTSNLNVDLDVK | 0.647 | | 87 | S | 0.611 | S | 1.31 | In |
| >892291c32b2ee011fcd68d2d7e21f6073c621c9e |  | |  |  |  |  |  |  |
| MRSFQAGRSPRIFLDETSVFDIGACVVNGIDIAPGRAIPDDGDARIDHSLEGFLFTCGPDHIRHPEPIEGDVEGRRYPLHGSFSSHPATIIAFDVHETNALARVEVPVKLADGGTALLERTWRIDGESGEVSLDDRVVNTSDRPIPVFLMYHMNIGARLFDDAVRLEGAMMDGGGHGWRFGEEPGNVFCVSAGKSEWAELKLGPIAAIGGKTLTVGFRTETLPYLQIWRNQQDPANVLGIEPVSHRWVGRRELEAAGEFNILQPGESRSFGLRFSIL | 0.573 | | 56 | S | 0.52 | In | 0.08 | In |
| >a89236724d0bf1e25e3be63caa62b4dce485ed59 |  | |  |  |  |  |  |  |
| MGHHHHHHSHMQHARKAGLVIPPEKSDRSIHLACTAGIFDAYVPPEGDARISSLSKEGLIERTERMKKTMASQVSIRRIKDYDANFKIKDFPEKAKDIFIEAHLCLNNSDHDRLHTLVTEHCFPDMTWDIKYKTVRWSFVESLEPSHVVQVRCSSMMNQGNVYGQITVRMHTRQTLAIYDRFGRLMYGQEDVPKDVLEYVVFEKQLTNPYGSWRMHTKIVPPWAPPKQPILKTVMIPGPQLKPEEEYEEAQGEAQKPQLA | 0.426 | | 89 | S | 0.758 | In | 0.54 | In |
| >b442c347e569907f82f523c29bf5e5bf334abf1e |  | |  |  |  |  |  |  |
| MSLKTPFTIPEDRRFEHTHIVAGSGHGKTQTLQYFIAKDLEAVSRGDKSVVVIDSQGDLLSTILMAKTLPPDRIVLIDPEDIQFPVSLNLFSVGQDRLENYDPLERERLTNSIIELYDFVLGSLLSAGMTAKQSVVFRYVTRLMFHIPDATIHTLRELLEPDGTDTYRKHIEKLEGTPRRFFETEFDSKEFANTKTQVLRRLYGVLENQTFERMFSHPVSKFDMFTEMNAGKLILVNTSKSLLKEQGTEIFGRFFIALIAQAAQERATLPDYDRLPVMVYVDEAQDYFDQNIGIILSQARKYKVGMVMAHQYLGQLTQGLQEAFEANTSIKLAGGVSARDARALAGQMSCDPDTIQRQPKGTFATYVRGLTEGHHHHHH | 0.698 | | 31 | In | 0.684 | S | -0.33 | S |
| >2c8ac6a80bbbd5f43946cc6e225745a7e84b63d8 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHSQSLVSSNPHSNSTNTDGTSSNLEEVKYPVVYEIFIRSFYDRDGNGVGDLNGVSQKVDYLKELGVDAVWFMPFNEAVSYHGYDITDYYNVEKDYGTMEDLENMIQVLHENGIKVIMDLVINHTSDEHPWFKDAVENTTSSPYWDYYIMSLEDHSGQDHWHWKINSKGQKVWYFGLFGYNMPDLNHDSQKVREEVKKIVDFWISKGVDGFRIDAAKHIYGWSWDDGIQESAEYFEWFRDYVLSKKPDAILVGEVFSGNTYDLSLYPIPVFNFALMYSIRNYPEGQDGMIENNWVEESFLFLENHDLHRFFSHLQEHYKKFSESDYEFIKKRAALWYFLIFTLKGSPVIYYGGEIGTRGFKWHGPVYDEPVREPMQWYASGTGEGQTFWTKEVYKNAGITFGNADVDGCIYDDPYDGFSVEEQESDPKSLLNFIRFILNFRKDHDAILNGDQTIFRDWKNLIAFYRESSNEKLLVVLNPDPVWQNSFTFEENMTMILEVDFENFIWNESNVSFSAGESFTVDPMKAYIFKK | 0.525 | | 23 | S | 0.739 | S | -1.02 | S |
| >ffd8064b5e7e42431b432597777a5ce530398f92 |  | |  |  |  |  |  |  |
| MHVDSMKRARVSAVYEGKERNRSSNGEETRREQSKHARMTAKARMNVYKESMKPLPPKRKKSLMIISLMRKKEDTQDDQNNVTVVEKEKEEKEKGTVQNIRENAEMLSSKCVEEWPHMLTYEEEWTWFAFAFGWGWWQRYDAVMSGKSWFN | 0.635 | | 74 | In | 0.846 | In | 1.26 | In |
| >df498b9e9327fcf069e34a3993a6b903fac9c6ad |  | |  |  |  |  |  |  |
| MLQVKEELGADAVIMSNKKVAGGVAIVAAVDNESNPSSSSASSQSNRGASQSNRYNEHRQMSSSAADRFQDRSLDEDKISLQNSKEKSGSMTQRFANMLKQYSGGAAESDDHVAENEDSLSALLQRQNKHRESYNQEKPVPYQPDSPLAKLIAQDNRFERPTPKLDPTRYDRRRPSSEERDESAKELENMREEMTSIRRLLEHQVSGLMWQEVERREPLRAMLIKRLERMGVSPELADQMACYI | 0.365 | | 62 | S | 0.697 | In | 0.97 | In |
| >eafcf8bfff55cb740f717d3a5b39ebd90f3fb812 |  | |  |  |  |  |  |  |
| MAKIVNVSEIHPTLGFTEFDILEKYRKSFNESELGKLHSVFPFECMAKAAGLSDRRLGRRNRFSPSAKIALMVLKAYTGFSDRQLVEHLNGNIHYQIFCGIMIPPSLPITNFKIVSAIRNEIASRLDIDSFQELLASHWKPYLDNLHVCMTDATCYESHMRFPTDMKLLWESLEWLYRHICRHCRELGIRRPRNKYRNVAESYLSYCKKRKRRASRTRMLKRRMIKLLEKLLSQRDGIHSEYGALLRYTQDYHKRLSIIRKVLVQEKEMFEGRKVSDRIVSIDRHYVRPIVRGKETKSVEFGAKVNNIQIDGISFIEHLSFKAFNEGIRLKDCIRMQQKLMNVRVRCVAADSIYANNANRKFCTKYGISTSFVRKGRAAKDEPLRKVLRSELSKERATRLEGSFGTQKQHYSLSRIKARNRKTEILWIFFGIHTANAILMIEKIRNKAAKAA | 0.153 | | 60 | In | 0.983 | In | -0.67 | S |
| >9303b493f48015e21b427589cd94c6c0cf660f58 |  | |  |  |  |  |  |  |
| MDYGYWLEVLTNRSVIDENNTLNGTQIRLMAEMFLNNETFAANVLENDFHLYPYGSPNYTIPVYIVAYDAVTFVYAGSQAQWYVGYPPSFPGAFFGYTTSLGDIGKAMGAMTTIAGYPLDEYVNLTEINNTITQIINTYATTNPTIAQTLASQVSQAEPFAWLEHHHHHH | 0.353 | | 16 | In | 0.562 | S | -0.96 | S |
| >cb108272191b2be3d12e3a06c414a5f5eaa1c619 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHLNSSYVNGNTAGNLYNAGLFCESDGEVFFSNTNDNGRLYAMNIDGSNIHKLSNDTAMYINADKNYVYYVRNNNQKITSQTFFSYDRNSLCRIKRNGHGSTVLDPDPCIYASLIGNYIYYLHYDTQTATSLYRIRIDGEEKKKIKNHYLFTCNTSDRYFYYNNPKNGQLYRYDTASQSEALFYDCNCYKPVVLDDTNVYYMDVNRDNAIVHVNINNPNPVVLTEANIEHYNVYGSLIFYQRGGDNPALCVVKNDGTGFKELAKGEFCNINVTSQYVYFTDFVSNKEYCTSTQNPDTIKALQP | 0.148 | | 5 | In | 0.764 | In | 1.22 | In |
| >61385e3e8f87493e5174c26a725069e2b12b1a1e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMSICPHIQQVFQNEKSKDGVLKTCNAARYILNHSVPKEKFLNTMKCGTCHEINSGATFMCLQCGFCGCWNHSHFLSHSKQIGHIFGINSNNGLLFCFKCEDYIGNIDLINDAILAKYWDDVCTKTMVPSMERRDGLSGLINMGSTCFMSSILQCLIHNPYFIRHSMSQIHSNNCKVRSPDKCFSCALDKIVHELYGALNTKQASSSSTSTNRQTGFIYLLTCAWKINQNLAGYSQQDAHEFWQFIINQIHQSYVLDLPNAKEVSRANNKQCECIVHTVFEGSLESSIVCPGCQNNSKTTIDPFLDLSLDIKDKKKLYECLDSFHKKEQLKDFNYHCGECNSTQDAIKQLGIHKLPSVLVLQLKRFEHLLNGSNRKLDDFIEFPTYLNMKNYCSTKEKDKHSENGKVPDIIYELIGIVSHKGTVNEGHYIAFCKISGGQWFKFNDSMVSSISQEEVLKEQAYLLFYTIRQVN | 0.398 | | 90 | In | 0.889 | In | 1.26 | In |
| >8200309aefd688b12a0e0ac2375e46038dff97a4 |  | |  |  |  |  |  |  |
| MKKLKHSILSLLLLMGACIVSCSNDDGQTSSTEPDEVGGESFTIPVSSLRLRDPFILVDKKTSMYYLHFNNNLK | 0.415 | | 71 | S | 0.702 | In | 1.78 | In |
| >8e44c0dcb809d6fa351bcf327f63bfe35ff30d90 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTDTMSTWPHIRTLTDGDWFELNGLNIWDHDWMNTAEKIQIKDPLYAQDYTFTVYEITNGPVAVAFAAGEFSNGVWGIYLKKN | 0.1 | | 44 | S | 0.709 | S | -1.38 | S |
| >2c7354fd005bd45c17636927f3d0ceaf30c3bf4a |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMELPSVFAPFKRDPTFYPSPKMAMKSPPEDLAYVACLYTGTGINRPDFIAVVDVKPESETYSKVIHKVELSYVNDELHHFGWNACSSALCPNGRPNFERRFLVVPGLRSSRIYIVDTKLNPRQPNIVKTIEPEEVKKVTGYSRLHTVHCGPDGIYISAFGNENGEGPGGILMLDHYSFEPLGKWEIDRSDQYLAYDFWWNLPNEVMVTSEWAVPNTIENGLRLEHLKDRYGNRIHFWDLRRRKKVSSVTLGEENRMALELRPLHDPTKLMGFINMVVSLKDLSSSIWLWYYEDGKWNGEKVIEIPAEPTEGGLPEILKPFKAVPPLVTDIDLSLDDKFLYVSLWGIGEIRQYDVSNPFKPVLTGKVKLGGIFHRADHPSDHKLTGAPQMIEISRDGKRVYVTNSLYSTWDNQFYPEGLKGWMVKLNANPDGGLDVDKEFFVDFGEARSHQVRLRGGDASSDSYCYP | 0.386 | | 64 | In | 0.655 | S | 0.95 | In |
| >27be803fce20ad44d8870d2a8bc8885d85370092 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMGADYASAVSYTRTGSGDDLPDWVGREFVIHAPFPVESSRIADFCAMLEDPNPLYWDIEAATQKFGRPIAPPATLTAWRWPAPWNPYGRPEHGFPATVEVPCPTDTLVNVEFACEYLQQIGVGDKLTYVDRIAAISDEKMTALGRGYFVTADTVVTNQENQEVARYRNVMLRYKSGTGKAADSQKVQQPAPEKVPTDSERPIPALSIPVTWTLCTQLTAATRDYFPGHHDPDYARSQGVLNPYPNTGYYCGLMDRVALEWANFDGVLKRRVLRMFTPAPIGTTLRTSGRVLSRQTVEGTEHVELQIEVRNEEALIAQARITLKMGA | 0.176 | | 53 | In | 0.714 | In | 0.17 | In |
| >3f69e90e89836432542fcf7a9c149efd2266e714 |  | |  |  |  |  |  |  |
| MYPRLEIDIEKLKHNVKLISQMCHERNIKISFVTKSFCAQKEIVEEICSEGIDHIADSRIQNLKNLQDINLPKILIRIPMLSELEEVINYCDISFNSELGTIKKLNELCESKNIIHKIVLMFDLGDLREGYFYEEDFFNNVREIVRLKNIEIIGIATNLTCYGAIIPSRENIGRLVSIAKRMEEKFGINLEIVSGGNSSSIHLLINNNMPEGITNLRIGESILLGRETAYGENINGTYQDAFKLICQVVECKEKPSVPIGEIGVDAFRNKPVYEDKGILKRAIIAIGKQDINIDSLIPIDTDIKILGASSDHMILDVSNTKYDYKLGDNLEFLLTYGGIMSSSTSKYVAKKIIV | 0.395 | | 81 | In | 0.883 | In | 0.35 | In |
| >e0c36372011b5ff5942e2f5d1bf9266931ed21aa |  | |  |  |  |  |  |  |
| DEGIKAKAIELAESIKGLGEYQEFLENEKLLKEDEVAQELLVEFQQKQQDFVTKQLSGEYDQDLLGELTELQSKLNARESVVRFIESYNRLLAVIGEVVDLISE | 0.846 | | 99 | S | 0.878 | S | -4.07 | S |
| >e952b8b31d4e7ca87d4f93f8eb64b9de15a4634c |  | |  |  |  |  |  |  |
| MAQQSLLDVQLVACSTFTTPSGVDWKVDSAATDSEALVEFAGRACYETFDKPNPRTAANDAYIRHIMEVGHMALLEHPTATVYIRGLSRSATHELVRHRHFSFSQLSQRFVHSDETHVVIPPLIDNDPQLRELFLSTVDEVRFAYSELMTALDNKLADEPNAILRRKQARQAARSILPNATESRIVVTGNFRAWRHFIGMRATEHADVEIRSLAVRCLEILKEKAPTVFSDFETSVLSDGSIMATSPYVTDY | 0.177 | | 49 | In | 0.971 | In | -0.6 | S |
| >8fc006e951e8e560abc98d83e378f8e1ee0a893e |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMENEENSAREQEADDFLHIASVKEDWGGDGRGRMNLSGRRTAIAKEYLPRQYQFFDTNTVMEKQGWRVRGMPDNIAPGSRRLLTWHDSGASTSRVVLPPKFEAPSGIFTADLEIFVIKGAIQLGEWQLNKHSYSFIPAGVRIGSWKVLGGEEAEILWMENGSVPLEYKYAQEDHPDARLSDFIPALDSKLLPWGKADTVQFVQANKKWLRKDINGGGVWLLAILPHFDNKYQMIQPYNEEGYCLTGYCDVGDYRIVKDHYWYCPSFSTLPRHITDDGGLFFVRVDRDLSKVATVLSYAPQDT | 0.291 | | 30 | In | 0.622 | In | 0.24 | In |
| >b9286d2e27d6d6bd6543b7036b097a04ae999d2a |  | |  |  |  |  |  |  |
| MIRSVSLSELPSFGEDEVLNNLTTVNYVFGPNGSGKTSISRSLTPSLNGIANDYSHVKWGRESQTVKVYNRDYVNKTFTKAEERGVFLLGEDSKETFNQIKELQDALQKAEGKIENFRSMIETAQKELEVMRKDLRDKVWDRRSDIPEVLRHEMTGLNGGRDRCLELTLDKAAEFPDRGEETFESLLSKARVVFSNEIDEQPPIPPVPVLEWNEGNLREALRTPIVGSADVPLSDMIERLGISDWVREGVEHFHDPRNSATLCPFCQQTPPQNLSEQLTRLFDDTYQEKRSEIEQFKRELEAFDQSLTSYKKQNFDVLQYGGGSAEINQAFETVEVGLKSIATSLEQKMMKPSDAIEVGSVAQSHAVLVSIVDRANEEIKENNTIIRTRKDQRSIIIDNAWREFVRGHLNDLITTFLKEKEKVDKKVNGLQEKIEQQEGFCQSHESKLRQLRAQTTSSEATIETINEMLEMSQFHSFKLAKAHHTKDGYRIVRDDAQTADIATLSEGERTFVTFLYFYHSLSEVKQEGETEKICAIIDDPISSLDGDIMFVVSALTRDLIQKVRQQKHDRVSQVFLLTHNTRFHEEVSYNHKGEESPEVKFYRIKKFSPEPNQMQDCGRKNPIRSAYQELWDEVAAARLCPDSRRPWLPNILRRILESYFSTLGGQRNLYEIGEGLPPSEKALHDALIAWSHSGSHTIVGAEVYAQSSVSNERWLEAFERVFQKTSNGAHWGHFEMMMREAEKYVQ | 0.634 | | 69 | In | 0.657 | In | -0.28 | S |
| >944e535c7d9c17b7035166cc05e93c914ed03aea |  | |  |  |  |  |  |  |
| GLALGQVANILDQASQWQRFNQNLLMTMIDHMTQGVSVVDENMCLVAWNNQYLKLFDYPKDLVYVGCPIADLIRYNAERGECGPGSIEEHVRKRIHWMKVGSAHEFERFRKDGRVIQMRGNPIEG | 0.229 | | 27 | In | 0.5 | S | 0.5 | In |
| >fc0fb400913a04491a4f5bbf99eb93f20bb35484 |  | |  |  |  |  |  |  |
| MSLDSKTISGESFVEWLKAGILGNTLTINNSSAKLHIVQGKLFLVTPGIFQMYFNSKGIANFTKKDIESLQYSFQDLKLHKKYHQSNKDSVNFWRCKVVGPRKTSQLIGYLVDKTDYFFGSKIPIDNLHLSLIEENYNEEGHHHHHH | 0.842 | | 73 | S | 0.576 | S | 1.89 | In |
| >c6d285047d4244c2b7a7de4a26ba041518175348 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHAQTLSGGQVQVSNQSILISDNGQVMIGMDITLPAAMELSSNCVATLTPVLKTQDNSYNRILPAIWVYGRIRSIVQQRERSIPSDAYTILRRKNGTEQTVNYSARIPYEKWMNGAELELQAAIRGCADCQKEENSAFITRANLERYVVKPVVAFVSPAVEAVKNRAEEGRAYLDFPVNQMNIYPDYRRNPSELAAIKHTVDVVKNDVNTTITEIAIVGYASPEGRYAANARLAQGRAEALKSYVMNEYGFKADLFKVNSVPEDWAGLRAYVAKNDLPLKEEILSIIDKNESDFDVKEERIKALDGGKVYAALLQDCYPALRHSDYTVRYVVRGFDVEEAKQIIKLRPQQLSLQEMFLVAQTYEKGSDEFNEVFDVAVRMFPDDPTANINAAAIELQRGDLQQAVRYLDKADAQASATLNNRGVLKLLQGDLDSAENYFKQAQAKDSVEAGANLEEVTNKRKDEAIFVK | 0.321 | | 64 | In | 0.502 | In | -0.09 | S |
| >0a486f6c521aedcc5b93f9f0d8fd2c0b1dbbf8cc |  | |  |  |  |  |  |  |
| MKVILFHEAICPAGTTWAQRMKEVVDEAVHAEACGFDGYAMSEQHFASGEAITSAPEIVLPYVAARTTKMRLRIASVNLLPYNHPIRIVEQMATLDLLSGGRAELGGARSNNPYTLDAFGVDAKLTREYRDEFLAIIGKGFTQEKLEHQSPYYNIPPRRMSPWPVGRRPVPVHLSATSLESHEEAGRMGVGAMSGLSILGWEYAQACIDAYRKGAENAQCVAGSITKRQALFSVGVNCHADRATALKQTEENTLRFVEVIMDWMTKLAKRSEGYEYFAQIERIRANMDNLQYLIDNAPYIMAGTPDDLIERCRRLHEMGIDDLIWRIDGMGHETNKKALELIGKEVLPVVQSWPEHEYSTPSSTWNQS | 0.393 | | 32 | In | 0.872 | In | 0.03 | In |
| >edb16ae9aa89856e8eab5c01522f0466b6d03e0f |  | |  |  |  |  |  |  |
| PIPYAIASEPTADAMVEGYYYKVAPDGEKYKNTISTFAHISKTRHMYHDASRKQHYDNFHDRTRKEQLMEIHHRSERACFIGKARVVLALMQAEGNTTARSLDISKVGIELDESSKALPLLEESLNTHRTLYSKNPTAEEAKLIDKRAILSREGKSALEDIIKALENGEDPQEYNAFSVLNWGVEKSYLDKVHGTHHAHSGSSHMPELKISAVSTSDKDTKDKVLADADHNRQ | 0.284 | | 93 | S | 0.575 | S | 0.07 | In |
| >856f7bebd11a45be3c0bfbab5a1733df7bcf9d66 |  | |  |  |  |  |  |  |
| FETRAKGRSGEALRSLLNLGAKDAAIIRDNREVRIPIQSLQVGDVFVVRPGEKIATDGVVVEGTSAVDQSMITGESVPVEVAQGSHVTGATMNTSGRLLVTAQRVGADTTLAAMGRLVAEAQSNKAPVQKLVDKISQ | 0.704 | | 55 | S | 0.78 | S | 1.11 | In |
| >151078977f29e03567e19c7562e9572a23ffc8cc |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKILVLSWEFPPRIVGGIARHVAELYPELVKLGHEIHLITVEVGQASMYEVVEGIHVHRVPVSHSNDFFHWVVNLNQSMGHHGGKLITEEGPFDLIHAHDWLVGDAAIALKHNFKIPLIATIHATEYGRYNGIHNDTQRYIHDKENLLAYNAWRIIVCTNYMRQEVGRTLESPWDKIDVIYNGIRPEKKQHHEDFHAQDFRRQFAEDHEKIVYYVGRMTYEKGVSNLINAAPKVLSEMGGYVKFVIVGGGNTDNLKRQAWDLGIWHKCYFTGFLSDEYLDKFQTVADCAVFPSLYEPFGIVALESFASRVPVVVSDTGGFPEVVQHTRTGIVTWVNNHDSLAWGILEVLKNPGYSQWLIDNAYKDLEHRFSWPKLAQQTQAVYQRVVKERSQVEW | 0.135 | | 48 | S | 0.588 | In | -0.18 | S |
| >a0f3a6753d6f83cfff324bc12db64b016586d0ec |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMTVSVHSELFLLCSYRFQRRSEESSRVIRNLFLRTLRGMDVWAASFASTGAKAYMPVKGQSMARIYKTRTWHGELAPSMEEMEFLALEAYAHLPEDFRKLTGEIVIQIAEFPTDEIMDDLSLETPFDLLGLFEGRGIAERWNPQTGEGPNRITLYRRAMLDYWAENEETLGDIVTHVLIHEIGHHFGLSDDDMEKIEEAAE | 0.164 | | 39 | In | 0.684 | S | -1.93 | S |
| >1a53029a1a3cc2a7fd865f99e59d2a3f839a79b0 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMIMRNINTDLIDAMKIYLPKGNNLANALMDILYLGKEATYRRLRGEVPFTFAEVATISQHMGISLDKIVGADLNDNAIVNLNMLQCQRPTETYYSIIDSYIKLFGQLIERESSERSTSSNTVPQTLYLKYEALSKFQLFKWIYQHESTYAGRHYEDLEIPEKLIDKQKEFVNLSQLFQSTNYIWDKEIFIRLVNEVKFFLNINLISEDSVKRIKKELLILLNELEKISAQGKYSSGKDVKIYISDINFESTYSYVETDIYHQCLIGVFSINSITSKDDFLFQHLKLWIQSLKKYSTLISQSGEVQRIHFFNRQQELVKSL | 0.153 | | 35 | In | 0.889 | In | 0.29 | In |
| >44e7d39bba81dc8adcb646254d6572760a10e076 |  | |  |  |  |  |  |  |
| MAIDHDRLFKELLQTFFEEFVLLFFPDMHEHIDFNHLSFLSEELFTDVTAGEKYRVDLLVETKFKGKDGLIIVHVENQAYVQSSFPERMFLYFSRLFEKYRTPIIPIAVFSYDAIRDEPSSFTLSFPFGDVLDFRFFHVELRKQNWRQFIRTDNPVAAALLSKMGYTESERVELKKQFLRMLVRLELDEARQRLLMGFFETYVKLSDEEEQQLRSEVEQMETKEKERVLELIISYEQKGKIQGRKEGREEGRKEGAEQEKRHIAKRMLMEGFDAQTIHELTGLPVTEIEEMKQGGFK | 0.252 | | 95 | S | 0.671 | S | -1.66 | S |
| >5fb6c475d6ecbd3ab5b4a0aa7b7e03cd03082ec4 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMREYDLTDARWTKSSYSNGEGGDCFEVAQDFPGAARWRKSTYSNGDGGNCLEVTDGVPGVIPVRDSKVADGPVIVVGSAAWTEFVRTVVQSRGAGV | 0.162 | | 69 | In | 0.516 | S | 0.87 | In |
| >7db590b67cfca6c4c52592314882673be66fb6b9 |  | |  |  |  |  |  |  |
| GPGSMLFHPLLPLDLLPPSLSASVSGLLLFSSSHLTTHTTTLPCTASLNLHVQRLPVSTLIHQLLPKDRCSISNFTEVVMNSQASSSPLPPAASCVQFRPEQLQLGTGIPLGSGAISQVVQCRLRCAAAPLLPVVVKIVSKIQVLQQGKVQSVMNEKATLQRLAPFPYVVRLYGTAQSEDELYFVLEWLPHGDLLQHIRYVAQERVRQYNEEEAAAGSTASMSSPGTVAGGTTGSAPDGPPVAEASASTGPSKRATAIPASSTALRCLDFHDIQLITAQLVLALEHTADRGVVLRDLKPENVAFDEKYRACLLDFDTADLGGAENMPETNGGVACPPPVDAAAVDEAESSNGGGGDAAAENGGASSSARRRRRLTVSQIHSMRRRTASFCGTAHYVSPEMVGECKWSFSSDLWALGALVYELVYGEHLFSGMTQFEVLQKVVHGTYVERQELFPRINFADDADGEAEQCCGGRRFAAVKDFIQRLLLTDPQKRLGVHPDTHRFDATALRRHALFDGFQWEPVEEQLRTFRMRRFDLGSSKATSTESGDASCDAREACSDASGASSAALKSLAAACVDPSSSLASRYHILPFNDPAYAEYVYRATADANPLEQFFTQEGTEPASTAAAALHEAAGSAGGSAPGAVPTPAVDSRPEVASVVDDDEVDDVIDDVGMHYTGRPADKCFQDCRDTP | 0.548 | | 56 | In | 0.983 | In | 0.11 | In |
| >2cc53b90289a0e51e5e6357052ea6b52bd2001af |  | |  |  |  |  |  |  |
| GPGSMEERFDWMTFGDDVSGAQAGSAAPPSTGADEDVPIFLREDAGMAQAGASHATVASGSTGIGAENGTPAFLAVCPAADVAPRLCGGWSSEGSPVWDGSLRQQQKPSSTAALGHPGGAGDVPAATSAVLYADQPSAAVLHFTGDSGRSWGALHRVRILGKGSYGCATLYSMKDAASGAVEPTHAVVVKDINMQTMLNPAEEVPAVQNELKVLRTVLGHPNLVQYVDALFDTRPPTYPMSFIMMEYCAGGDLAAVMDGRRPDSTTTNGAPSSPPSIPLATTTASTAAGPDILTEPCVASLFIQVAVALQSLHTEYGILHRDVKPHNIFLLEDGITVRLGDFGISTQLDRVGDTAKEACGSPYYMAPELFEERAYGAAADVWSLGVVFYQLMARQLPFTAASAAELRSLVCRGRCTPLHDLQNESTSRYSRQFKELVSSLLTADAAARPTLRRVLRHKYVRESLKYVPVSVLTAKKPLPAARVPSTGATPSSSSQRFSADGLYASLFGSDVVGQAVSQAVHAGVHPIVSRVHSA | 0.64 | | 51 | In | 0.946 | In | 1.01 | In |
| >c3b3c64728df4efe1be5d8dae9a181996ffa5cff |  | |  |  |  |  |  |  |
| MAHHHHHHMLDANRPYTFYLHTDRQTITLFTLEGAACMLSSDNRVDTHRGVARAGKLVQMTRRTILSAKRTKVLVIGRPRSGKTLAAHTLCNLLMRYGTDKKSVFLMDLNAESNCLFAPGCVSCIQVSEAPLWPGLTASPKLLPISLYAGAAVRPSASNVNSLLHYYDQLHETVMGYIQELSGAAAAAAQQQSPSPYAPSLNETHSHVVVDAPAPLADLQEGVWYKKLIEILRPSHVVIVSSREDDEERWSTFLQEDVQRVLPDCEFLFTDPVAHPCERSSSRELLREYFTGTPFYSLGCSKVVVPLKSLTFVEEASEGLVPGSADGVLMRVVHPDASFQALVCALSHAELLEEAPLAPIAGLVTIVYVDEKNEEVAMLIPAAEEPLLRRLIIVPQSRYRDTLRMSSVQVTTMEEYVAV | 0.571 | | 59 | In | 0.984 | In | -0.06 | S |
| >a76da36e0476ffc6cf539fbdaf6648d03d47582b |  | |  |  |  |  |  |  |
| NYSVSYNLMSGFRIATDSAAGQKVIAQDFGEGEIAPSTMIVTGPGADAAAKAIAEQLPQQLPGDVTRAAFSPRKDVTEDGSAARVDVVLNADPYSTTAFDMLDRATEQAGEIAGSEVRVASAGETATARDSAAEVTHD | 0.664 | | 49 | S | 0.506 | S | -1.49 | S |
| >f0d52b828612e5cf2c0bd9192c3f3d8ab511b234 |  | |  |  |  |  |  |  |
| MAKYETPPPVRPLEKLITDFSYTNGLDPVNVFNDFLTYIIHGFSPGAPPLQNWKYKRLQNMKFMEMLTGWVQLMASRIKDDTSWYDPFGDLYMALVSKSAQQSQGQFFTPVHICDLMVLCTQTEEKMTGQRMGDPTCGSGRLLLAYHARNPENYLIGEDINRTCCLMTVCNMLIHGCVGEVICHDSLNPGNFVDGWKVNPMLTWTGIPTIKRMNMKEYRAGRNLPASPYIIRKTMLAGSRKHKTDSLLPLQAVFKMLEHHHHHH | 0.358 | | 24 | In | 0.813 | In | 1.47 | In |
| >dec80f4fa1c75b2db53c34736e3e79dc4702dd2e |  | |  |  |  |  |  |  |
| MWLPERAGRWSCSCAAPGSWGGYSGAFRATARVAPTIFRLLSYIRFMELQEKITILSGAARYDASCASSGCSNDTPYRGTGNTSQGGICHSWADDGRCISLLKILLSNDCRYDCAYCVNRSSNPVPRASFTAREVVDLTMEFYRRNYIEGLFLSSAVWDSPDRTMEEMVRVAEILRNEERFGGYIHLKVIPGSSADLIRRAGLAADRISVNIELPSNESLKRLAPQKSKESILTPMKLIGAEAGFSLVERTKSRKAPRFAPAGQSTQMIIGASPETDLQILQLSQSLYRKMNLKRVYYSAFVPVNDDNRLPVLAAPPLLREHRLYQADWLLRFYGFSAEEILSDDAPNLDESFDPKTAWALRHPEFFPVEINRADYATLLRVPGIGITSAKRIIAARRFAPVTHEGMKKIGVVMKRAKYFITCSGRPFEKIDQQPARLRQRLLLGDGSEQKQPQQLVLPGLFA | 0.24 | | 30 | In | 0.971 | In | 2.02 | In |
| >aa9b46a0fe7dbcd9ced11b3bead1fcc47cee1b88 |  | |  |  |  |  |  |  |
| HTKSFKIKNKWLGQNYQMYGHGLGIDQVNLRKGTSSSLVINQKRQIVGIYFATVITNPKKAVRNDVGLVQMLRFQGEG | 0.28 | | 12 | S | 0.542 | In | -0.28 | S |
| >211cbde9276300c2a31a76a73cf5b66dab0eb154 |  | |  |  |  |  |  |  |
| SLINIALADDESLFLDTLSFMLQRIPDFNVVFTATNGQDLVDQLTVQNPLPDVVVTDLKMPELNGVEATKKIKELYPKLSVIALSSYNTDVFISNMLGVGAASYLVKNTTPAQVELTIREVASKGFYYDKNVLRILQDNSQDGNYKRSTLDHNLLSPRELDVLQLICEQFTTAEIADKLCVSKRTVDGHRNNLLIKTKMRNVAGLVAYAIQNAIIIVEEG | 0.58 | | 56 | In | 0.702 | S | -0.25 | S |
| >28f15a6111896f1507d4e0ee2d1dee40d9cc7390 |  | |  |  |  |  |  |  |
| MVKELIEQGANVTGLVRDHVPQSNLYQGEHIKKMNIVRGSLEDLAVIERALGEYEIDTVFHLAAQAIVGVANRNPISTFEANILGTWNILEACRKHPLIKRVIVASSDKAYGDQENLPYDENMPLQGKHPYDVSKSCADLISHTYFHTYGLPVCITRCGNLYGGGDLNFNRIIPQTIQLVLNGEAPEIRSDGTFVRDYFYIEDAVQAYLLLAEKMEENNLAGEAFNFSNEIQLTVLELVEKILKKMNSNLKPKVLNQGSNEIKHQYLSAEKARKLLNWTPAYTIDEGLEKTIEWYTEFFKK | 0.558 | | 57 | In | 0.554 | S | -0.15 | S |
| >07c9a7b8b9b4c3e9024143edfd5c1edb4cb54213 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMPRDIHVKPFDEGTKAKLSIFQDYLREWLPVFISKRDIYWNNINIYDFFAGPGRDVAGVKGTPCIIIDELEPHLESIRNKNLKVNLYFNEYDKAKYELLNDHVLPKGNEQRDYYVQTESLDFKVAFQKRLAELTTNNSANLLFLDQNGIKHIGEETFKQIINIKRTDFLFFISSSTIKRFCEHPNILQHINLSSEDVEKTPYDQIHRLVLDYYKNLIPANKAYYLAPFSLKKNAGVYGLIFGSSHVLGMEKFLTTCWKVDPERGEANFDIDNDKINPGQINIFSGEISKPKKVEIFEKELEENITKGKIKTDKDVYLFTITNGFLPSHAKNVLKKLASSNKISKMKFNISSTICKIGASLTPIKLN | 0.292 | | 82 | In | 0.781 | In | 1.35 | In |
| >d837394f5e37201ce85e9a2f982a48bbbb241778 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMHSLLPFRFLFHWEMQAIGVAEMSMLVVVTENVPPRLRGRLAIWLLEVRAGVYVGDVSAKIREMIWEQIAGLAEEGNVVMAWATNTETGFEFQTFGLNRRTPVDLDGLRLVSFLPV | 0.122 | | 21 | In | 0.516 | In | -0.4 | S |
| >f6f81cfbdbcd060db4e5bcf131b8ef0eae1d3444 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHVMKLTVLQQAIRLLAYRRMFLTNLTPVDQVRTLIRQLHPLTPPTPFIRLGPAGDGGYLVPDDLAGITTCFSPGVGGIAGFEHDCANQGMTVFMADASVDGPPSHHPAFRFCKRFIGALTDEQYITLDDWVQQSLPAGNTGDLLLQMDIEGSEYEVLLATPTDLLRRFRIIVIEFHYLDQLWNKFFFRVAGRAIAKLLQTHACVHIHPNNQRGAMTLSDITIPRTMEFTFLRRDRLTGEHYRRDFPHPLDHTNTARDGLSLPKCWYGGDRR | 0.158 | | 12 | In | 0.68 | In | 0.41 | In |
| >f895c04fb1839b534c5434b3bf6d8d891659eb72 |  | |  |  |  |  |  |  |
| MGSDKIHHHHHHMKKTIQSVGVWGDSIMKGVLFNPEKNRYTLLKNNCIKRASEKLGLTFQNHSTMGRTITKGHEILTKDLAKDATNDIAIIEFGGNDCDFNWTEVSENPTAEHIPSTPLNIFETQLLEMIARLKKLDIKPILMTLPPLHAKRYFEFITRNGLNKDNILQFLGGDVEMIYRWQERYSNTISRIAAETGSHIIDVRDSFLAEFHYENLLCADGIHPNEAGHIAMSRKFIQYASFHKA | 0.195 | | 39 | In | 0.621 | S | 0.68 | In |
| >c782fd8735994be457daa0293154330f1235ccd5 |  | |  |  |  |  |  |  |
| KELESIDNDNTLTTDEKAAAKKKVNDAYDVAKQTAMEANSYEDLTTIKDEFLSNLPHKQGTPLKDQQSDAIAEL | 0.807 | | 100 | S | 0.56 | S | -2.89 | S |
| >a02269d18d60d3df95cd3e594cb4e44310a14d0c |  | |  |  |  |  |  |  |
| MPPIKRSKPDGGVKKISITATDVTPAKGVEEKMSWKEYKKMKQHTGGGTRNKLKKKQRPPTENTEGRAKKPKVLTKEQLERHDTGADQIDPSSMRSKLQQEKMKVTKDKFQRRIEATAKAEKRLVENTGFVAPDEEDHSLTYSIRQKDIAESVDLAAATKHFELKLPRFGPYHIDYTDNGRHLVIGGRKGHLAALDWQTKHLHFEQSVMEKVSDVKFLHTENFIAVAQKNYTYVYDNLGTELHCLKTMYDTARLEFLPHHFLLVGSSRNSFLNYVDVSVGKQVASFATKSGTLDVMCQNPANAIIHTGHTNGTVSLWSPNSKEPLVKILTHLSAVKGIAVDDQGNYMATTGLDRKCRIWDVRMFRQLHAYSLPFGVSNVAISQKMNVACAVGNHVQVFRGMHNGTCKEPYLVHNCGGVVTDLRFVPWEDVLGIGHAGGFTSMLVPGAGDPNVDTLRSNPYETKSQRKEREIKQLLDKIQPELISLNPDDINKVNEGLLELEEEERKKILYIRPMAVQYTPRHKMRSKKSGWKMEARKNIVKDQIRMERNMEKHAVEKEVFEAPEVDDEAPKKKHILDRLK | 0.677 | | 90 | In | 0.978 | In | 1.4 | In |
| >1b71cdc6eaa5e7a4b3757862dfba31475db3bffe |  | |  |  |  |  |  |  |
| MSLESHSLYFPRNLQLPEGEVDLQLDTMRLEDRPGRQTVPVTVLVDGTAQAVVDAVVVIRKNVTVAVLKRQLKRDDIVALGDIDWQTIQISREGFRYVSDVREIVGKAASRPVRANIALQASWFEEPVAVERGDRVRVLLKDGALVINTVGVAGKDGRVGEAILVRNLSSNKSFLARVMAPGQVVAEGLEGHHHHHH | 0.853 | | 83 | S | 0.775 | S | 0.38 | In |

## Performance Evaluation Based on Independent Test Dataset

Table S3: Reported prediction accuracy and Matthews Correlation Coefficient (MCC) of different prediction tools with respect to the independent test dataset used in respective literature.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tool | PROSO II | CCSOL | SOLpro | PROSO | SVM-based | SI-based | Recombinant Protein Solubility Prediction |
| Size of test dataset | 1764 | 1764 | 1764 | 1764 | 64 | 14200 | 14200 |
| Prediction accuracy (%) | 75.4 | 55.1 | 65.0 | 66.0 | 72.0 | 53.1 | 56.2 |
| MCC | 0.390 | 0.066 | 0.068 | 0.127 | n/a | 0.078 | 0.127 |
| Reference | [[8](#_ENREF_8)] | [[8](#_ENREF_8)] | [[8](#_ENREF_8)] | [[8](#_ENREF_8)] | [[6](#_ENREF_6)] | [[10](#_ENREF_10)] | [[10](#_ENREF_10)] |