

>d1hu3a_ a.118.1.14 (A:) Eukaryotic initiation factor eIF4G {Human (Homo sapiens)}
sdpeniktqelrfrkvrslntktpqmfnglmkqvsgltvdeerlkgvidlvfekaidep
sfsvayanmcrcrlvtlkvpmadkpgntvnfrkllnrcqkefekdkaddvfekkqkele
aasapeertrlhdeleeakdkarrsignikfigelfklkmlteaimehdcvklknhde
esleclrltlttigkdldfekakprmdqyfnqmekivkerktssrirfmlqdivdlrlcn
wvs

>d1paqa_ a.118.1.14 (A:) Translation initiation factor eIF-2b epsilon {Baker's yeast
(Saccharomyces cerevisiae)}
dfekegiatveramennhdldtallelntlrmsmnvtyhevriatitallrrvyhfiatq
tlgpkdvvkvfnqwgllfkrqafdeeyidlmniimekiveqsfdkpdllilfsalvsly
dndiieedviykwvndvstdptrydevkklvtkwvewlqnad

>d1h6ka2 a.118.1.14 (A:291-480) CBP80, 80kDa nuclear cap-binding protein {Human (Homo
sapiens)}
mfdytdddpegpvmgshsverfvieenlhciikshwkerktcaaqlvsyppgknkiplnyh
ivevifaelfqlpapphidvmytllielcklqpgslpqvlaqatemlymrldtmnttcv
drfinwfshhlsnfqfrwsedwsdclsqdpespkpkfvrevlekcmrlsyhqrildivp
ptfsalcpns

>d1upka_ a.118.1.15 (A:) Mo25 protein {Human (Homo sapiens)}
kspadivknklesmavlekqdisdkkaekateevsknlvamkeilygtnekepqtavaq
laqelynsqgllstlvadllidfegkdvafnnilrrqigtrtpvveyictqqnilfm
llkgyespeialncgimlrecirheplakiilwseqfydffryvemstfdiasdafatfk
dlltrhkllsaefleqhydrffseyekllhsenyvtkrqslklgelldrhntfimtkey
iskpenklmmnlrdksrniqfeafhvkvfvanpnktqpildillknqaklieflskf
qndrtedeqfndektylvkqirdlkrpaq

>d1utca1 a.118.1.4 (A:331-355) Clathrin heavy-chain linker domain {Rat (Rattus
norvegicus)}
eeniipyitnvlqnpdlalrmavrn

>d1lr_ a.118.1.5 (-) Leucine-rich repeat variant {Azotobacter vinelandii}
tpigdcrcvcsfrmsllltgrctpgdacvavesgrqidrffrnnphlavqyladpwwerra
iavryspealtplirdsdevvrravayrlpreqlsalmfedrevritvadrlpleqle
qmaadrlylvrayvvqrippgrlfrfmrddedrqvrklvakrlpeeslgmtqdpepevrr
ivasrlrgddllellhdpdwtvrlaavehaslealreldedpevrlaiagrl

>d1e7ua1 a.118.1.6 (A:525-725) Phosphoinositide 3-kinase (PI3K) helical domain {Pig (Sus
scrofa)}
hpialpkhrptdppegdrvraempnqlrkqleaiiatdplnpltaedkellwhfryeslk
dpkaypklfssvkwgqeqivaktyqlakrevwdqsaldvgltmqllldcnfsdenvraia
vqklesledddvlyhllqlvqavkfepyhdsalarflkrglrnkrihflfwlrseia
qsrhyqqrfaavileaylrgcg

>d1m8za_ a.118.1.8 (A:) Pumilio 1 {Human (Homo sapiens)}
grsrllldfrnnrpnqlrlreiaqhimefsqdqhgssrfiqlkleratpaerqlvfnailq
aayqlmvdvfgnyviqkffefgsleqklalaerirghvlsalqmygcrviqkalefips
dqqnemvrelldghvlkcvkdqngnhvvqkiecvqpqslqfiidafkgqvafalsthygc
rviqrilehclpdqtlpileelhqhteqlvqdqygnvyiqhvhgrpedkskivaeirg
nvlvlsqhkfasnvvekvthasrteravlidevctmndgphsalytmmdqyanyvvqk
midvaepgqrkivmhkirphiatlkrkytygkhillaklek

>d1n4ka1 a.118.22.1 (A:436-602) IP3 receptor type 1 binding core, domain 2 {Mouse (Mus
musculus)}
spaevrdldfandaskvlgsiagklekgtitqnerrsvtklledlvfyvtggtngsqdvl
evvfskpnrrerqklmreqnilkqifkllqapftdcdgdpmlrleelgdqrhapfrhricl
cyrvlrhsqqdyrknqeyiakqfgfmqkqigydvlaedtitalhnn

>d1n8va_ a.118.21.1 (A:) Chemosensory protein Csp2 {Cabbage moth (Mamestra brassicae)}
kytdkdydnildailankrllvayvncvmerngkcspegkelkehlqdaieengckktenq
ekgayrviehlikneieiwrletakydptgnwrkkyedrak

>d1r8se_ a.118.3.1 (E:) Exchange factor ARNO {Human (Homo sapiens)}
nrkmamgrkkfndmpkkgiqflvenellqntpeeiarflykgeglntaigdylgereel
nlavlhafvdlheftdlnlvqalrqflwsfrlpgkaqidrmmeafaqryclnpgvfqs
tdtcyvlssysvimlntdlhnpnvrckmglervfamnrgineggdlpeellrnlydsirne
pfkipped

>d1l5ja1 a.118.15.1 (A:1-160) Aconitase B, N-terminal domain {Escherichia coli}
mleeyrkhaeraaegiapkpldanqmaalvellknppageeeflldltnrvppgvddea
ayvkagflaaiakgeaksplltpekaieillgtmqggynihplidalddaklapiaakals
htllmfdnfydveekakagneyakqvmqswadaewflnpr

>d1eyha_ a.118.9.1 (A:) Epsin 1 {Rat (Rattus norvegicus)}
hnyseaeikvreatsndpwpssslmseiadltynnvafseimsiwrlnhdgknwrhv
ykamtlmeyliktgkservsqckenmyavqtlkdfqyvdrdgkdqgvnvrekakqlvall
rdeedrlreerahahtkteklaqta

>d1kpsb_ a.118.12.1 (B:) Ran-GTPase activating protein 1 (RanGAP1), C-terminal domain
{Mouse (Mus musculus)}
tdlstflsfpspekllrlgpkvsvlivqqtdtsdpekvvsaflkvasvfrddasvktavl
daidalmkkafscssfsntftrllihmgllksedkikaipslhgplmvlnhvvrrqdyf
pkalaplllafvtkpngaletcsfarhnllqtllyni

```

>d1qc7a_ a.118.14.1 (A:) FliG {Thermotoga maritima}
mfvfedilklddrsiqlvlrevdtrdlalalkgasdelkeikfnmskraaallkdeley
mgpvrlkdveeaqqkiiniirleeageiviargggeelim
>d1dlwa_ a.1.1.1 (A:) Protozoan/bacterial hemoglobin {Ciliate (Paramecium caudatum)}
slfeqlgggaavavtagfyaniqadatvatffngidmpnqtnktaafllaalggnawt
grnlkevhnmvgvsnagfttvighlrsaltgagvaalveqtvavaetvrgdvvtv
>d1ngka_ a.1.1.1 (A:) Protozoan/bacterial hemoglobin {Mycobacterium tuberculosis, HbO}
ksfydavggaktfdaivsrfaqvaedevlrrvypeddlagaerlrmflegywgpprty
seqrghprlrmrhaphrislierdawlrclmhtavasidsetlddehrrelldylemaahs
lvnspf
>d1b0b_ a.1.1.2 (-) Hemoglobin I {Clam (Lucina pectinata)}
slsaaqkldnvksswakasaawgtagpeffmalfdahddvfakfsglfgaakgtvkntpe
maaqaqsfkglvsnwvndlnagalegqcktfaaanhkargisaggleaafkvlagfmsy
ggdegawtavagalmgmipdm
>d1h97a_ a.1.1.2 (A:) Trematode hemoglobin/myoglobin {Paramphistomum epiclitum}
tltkheqdillkelpghvtpahivetglgayhalftahpqiishfsrleghtienvmqs
egikhyartlteaivhmleisndaevkkiaaqygkdhtsrkvtkdefmsgepiftkyfq
nlvkdagekaavekflkhvfpmmaaei
>d1a6m_ a.1.1.2 (-) Myoglobin {Sperm whale (Physeter catodon)}
vlsegewlvhlhwakvadvaghgqdlir lfkshpetlekfdfrkhkkteaemkased
lkkhgvvtlaltgailkkkgheaelkplaqshatkkipikylefiseaiihvlshsrhp
gdfgadaqgamnkalelfrkdiaakykelgy
>d2gdm_ a.1.1.2 (-) Leghemoglobin {Yellow lupin (Lupinus luteus)}
galtsqaalvksweefnanipkthrfilvlleiapaakdlfsflkgtsevpqnnpel
qahagkvfklvyeeaiqlvttgvtvdatlknlgsvhsvskgvadahfpvvkeailktike
vvgakwseelnsawtiaydelaivikkemddaa
>d1irdb_ a.1.1.2 (B:) Hemoglobin, beta-chain {Human (Homo sapiens)}
vhltpEEKsavtalwkvndevvggealgrllvvypwtqrffesfgdlstpdavmgpknv
kahgkklvgafsdglahldnlkgtfatlselhccklhvdpnfrllgnvlvcvlahhfgk
eftppvqaayqkvvagvanalahkyh
>d1it2a_ a.1.1.2 (A:) Hagfish hemoglobin {Inshore hagfish (Eptatretus burgeri)}
piidqgplptltdgdkkainkiwpkikykeyeqyslnillrflkcfpqaqasfpkfstkks
nleqdpevkhaqvifnkvneiinsmdnqeeiikslkdlsqkhkvtfvkdsiwwfelssi
fvstidggaefeklfisiicillrsay
>d1ash_ a.1.1.2 (-) Ascaris hemoglobin, domain 1 {Pig roundworm (Ascaris suum)}
anktreclmksleahakvdsneaqdgidlykhmfenypplkyfksreeytaedvqndp
ffakggqkillachvlatyiddretfnaytrelldrhardhvhmppevwtdfwklfeeyl
gkkttldeptkqawheigrefakeink
>d1iitha_ a.1.1.2 (A:) Hemoglobin {Innkeeper worm (Urechis caupo)}
gltaaqikaiqdhwflnikgclqaaadsiffkyltappgdlaaffhkfssvplyglrsnpa
yqaqtltvinyldkvvdalgggnagalmkakvpshdamgitpkhfgqlklkvvgvfqeefs
adpttvaawgdaagvlvaamk
>d1q1fa_ a.1.1.2 (A:) Neuroglobin {Mouse (Mus musculus)}
rpeselirqswrvrsrslpehtglvlfarlfalepsllplfqyngrqfsspedslsspefl
dhirkvmlvidaavtnvedlssleeyltslgrkhravgvrlssfstvgesllymleklsg
pdfptpatrtawslrgavvqamsrgwdg
>d1gvhai_ a.1.1.2 (A:1-146) Flavohemoglobin, N-terminal domain {Escherichia coli}
mldaqtiatvktipllvetgpkltahfydrmfthnpelkeifnmsnqrngdqrealna
iaayasnielnpallpavekiaqkhtsfqikpeqynivgehlaltldemfsgqevldaw
gkaygvlanvfinreaeiynenaska
>d1or4a_ a.1.1.2 (A:) Heme-based aerotactic transducer HemAT, sensor domain {Bacillus subtilis}
etayfsdsngqqknriqltnkhadvkklkmvrlgdaelyvleqlqpliqlenivnivdaf
yknldhesslmdiindhssvdrkqtlkrhiqemfagviddefiekrnriasihlrigll
pkwymgafqellsmidiyeasitnqqellkaikattkilnleqqvlle
>d1tu9a_ a.1.1.2 (A:) Hypothetical protein PA3967 {Pseudomonas aeruginosa}
naadrvmqsygrccastgfddfyhrhflasspqrakfattmdtaqkhllragimnlvmy
argmsdsklralgashsraaldirpelydlwldallmavaehdrdcdaetrdawrdvmgr
giaviksyysg
>d1jboa_ a.1.1.3 (A:) Phycocyanin alpha subunit {Synechococcus elongatus}
mktpiteaiaaadtqgrflsntelqavdgrfkravasmeaaralttnaqsldigaavay
qkfpyttmqgsqyastpegkakcardigyylrmvtyclvaggtpmdeyliaglseins
tfdlspswyiealkyikanhgltgqaaveanayidyainals
>d1qgwc_ a.1.1.3 (C:) Phycoerythrin beta subunit {Cryptophyte (Rhodomonas sp.), cs24}
dafsrvtvnadskaayvggadlqalkkfisegnkrldsvnsivsnascivsdavsgmice
npslispsgncytnrrmaaclrdgeiilryvsyallsgdasvledrc lnglkytyslgv
pansnaravsimkacavafvnntasqklstpqgdcslasevggyfdkvtaais
>d1qlab1_ a.1.2.1 (B:107-239) Fumarate reductase {Wolinella succinogenes}
tgnwfnmgskrveswihaqkehdiskleeriepevaqevfeldrciecgcciaacgkim
redfvgaaglnrvvrfmidphdrteddyeligdddgvfgcmtllachdvcpknlpqls
kiaylrrkmvsvn

```

>d1fpoa1 a.2.3.1 (A:1-76) HSC20 (HSCB), N-terminal (J) domain {Escherichia coli}
 mdyftlfglparyqltdqalslrfqdlqrqyhpdkfasgsqaeqlaavqqsatinqawqt
 lrhplmraeyllslhg
 >d1hdj_ a.2.3.1 (-) HSP40 {Human (Homo sapiens)}
 mgkdyqtlglargasdeekrayrrqalryhpdknkepgaeekfkeiaeydvlsdprk
 reifdrygeeglksgc
 >d1nz6a_ a.2.3.1 (A:) Auxilin J-domain {Cow (Bos taurus)}
 dpeklkilewiegkernirallstmhtvlwagetkwkpvmdlvtpeqvkvkyrkavlv
 vhpdkatgqpyeqyakmifmelndawsefenqgqkply
 >d1gh6a_ a.2.3.1 (A:) Large T antigen, the N-terminal J domain {Simian virus 40, Sv40}
 shmreeslqlmdlglersawgniplmrkaylkkckefhpdkggdeekmkmntlykkme
 dgvyahqpdfggfwdateiptygtdeqewwnafneenlfcseempssddeat
 >d1du2a_ a.2.4.1 (A:) Theta subunit of DNA polymerase III {Escherichia coli}
 mlknlakldqtemdkvndlaagvafkerynmpviaeaveqpehlrsfwrerliahr
 lasvnlsrlpyepklk
 >d1fxkc_ a.2.5.1 (C:) Prefoldin alpha subunit {Archaeon Methanobacterium
 thermoautotrophicum}
 aalaeivaqlniyqssveliqqqmeavratiseleilektlsdiqgkdgsetlvpgags
 fikaekldtsevimsvgagvaikknfedamesiksqknelestlqkmgenlraitdimmk
 lspqaeellaava
 >d1fxka_ a.2.5.1 (A:) Prefoldin beta subunit {Archaeon Methanobacterium
 thermoautotrophicum}
 qnvqhqlaqfqqllqqqaaisvqkqtvemqinetqkaleelsraaddaevykssgnilir
 vakdelteelqekletlqlrektierqeervmkkqlqemqvniqueamk
 >d1urfa_ a.2.6.1 (A:) Protein kinase c-like 1, pkn/prk1 {Human (Homo sapiens)}
 gipatnlrsrvaglekqlaielkvkqgaenmiqtysngstkdrklillaqmqldsktkid
 iirmqlrralqadqlenqaap
 >d1eiya1 a.2.7.2 (A:6-84) Phenylalanyl-tRNA synthetase (PheRS) {Thermus thermophilus}
 laaiqnardleelkalkarylgkkglltqemkglasalpleerrkrqgelnaikaaleaal
 earekaleeaaakealere
 >d1qoja_ a.2.9.1 (A:) C-terminal UvrC-binding domain of UvrB {Escherichia coli}
 spkalqkiheleglmmqhaqnlefeaaqirdqlhqlrelfiaas
 >d1coja1 a.2.11.1 (A:2-90) Fe superoxide dismutase (FeSOD) {Aquifex pyrophilus}
 vkhlepdkhlkpqnlegisneqiephfeahygyvakyeiqekladqnfadrskanqny
 seyrelkveetfnymgvvlhelyfgmltp
 >d1ix9a1 a.2.11.1 (A:1-90) Mn superoxide dismutase (MnSOD) {Escherichia coli}
 sytlpslpyaydalephfdkqtmeihhtkhhqtyvnnanaaleslpfanlpveelitkl
 dqlpadkktvlrrnagghanhsfkwgkllk
 >d1us6a_ a.2.13.1 (A:) Transcriptional repressor TraM {Agrobacterium tumefaciens}
 velrpligltrgplpdtletitidairthrllvekadelfqalpetyktgqacggpghir
 yieasiemhaqmsalntlysilgfpkvvn
 >d1tjla1 a.2.14.1 (A:7-110) DnaK suppressor protein DksA, alpha-hairpin domain
 {Escherichia coli}
 rktsslsilaigvepygekpggeymneaqlahfrileawrnqlrdevdrvtvthmqdea
 anfpdpvdraaegeefslernrdrerklikkiektlkkveded
 >d1ohzb_ a.139.1.1 (B:) Endo-1,4-beta-xylanase Y {Clostridium thermocellum}
 gdvngdgtinstdltmlkrsvlraitltdakaradvdkngsinstdvlllsryll
 >d1h9ea_ a.140.1.1 (A:) Thymopoietin, LAP2 {Human (Homo sapiens)}
 pefledpsvltkdklkselvanntvlpagqrkdvyvqlylqhltarnrpplpagt
 >d1h9fa_ a.140.1.1 (A:) Thymopoietin, LAP2 {Human (Homo sapiens)}
 rqedkddldvteltnedlldqlvkygvnpgpivgttrklyekllklreggtesrss
 >d1jeqa1 a.140.2.1 (A:559-609) DNA binding C-terminal domain of ku70 {Human (Homo
 sapiens)}
 yseeelkthiskgtlgkftvpmlkeacrayglkslgkkgellealtkhfkd
 >d1kcfai a.140.2.1 (A:3-38) Mitochondrial resolvase ydc2 N-terminal domain {Fission yeast
 (Schizosaccharomyces pombe)}
 tvklsflqhickltglrsgrkdellrrivdspiyp
 >d1h1js_ a.140.2.1 (S:) S/mar DNA-binding protein Tho1 {Baker's yeast (Saccharomyces
 cerevisiae)}
 gsadyssltvvqlkdlltkrnlsvgglnelvrlikddeeskg
 >d1a62_1 a.140.3.1 (1-47) Rho termination factor, N-terminal domain {Escherichia coli}
 mnlitelkntpvselitlgenmglenlarmrkqdiifailkqhaksge