

Drosophila	1	-----MASLVVGDLPQDVTEAFLKDFKSSAGPVLISIRVCRDITRSLGYAYVNFQOPADAERALDITMN	
Homo	1	-----MFAAASIPMASLVVGDLSHSDVTEAFLYEKESPSAGPVLISIRVCRDMITRSLGYAYVNFQOPADAERALDITMN	
C.elegans	1	-----MEMNVAAAPAAAVAGAAAPQGGQQTGSSIPMASLVVGDLSHSDVTEAFLYEKESPSAGPVLISIRVCRDMITRSLGYAYVNFQOPADAERALDITMN	
S.cervisiae	1	MADITTDKTAQELNLNLIQDDQKQAATSGSESQSVENASASLVVGDLPSPVSEAHLYTTPSPISGVSSIRVCRDAITRSLGYAYVNFHDEHAERKALFOIN	
P.berghei	1	-----MIANSTNIMPSPSTASLVVGDLSHSDVTEAFLYEHNTVTCGVLISIRVCRDSVTRKSLGYAYVNFHDEHAERALDITMN	
Drosophila	65	FILVFNKPIRIMWSQORDPSLRSGVGNVFIKNLDKIDNKALYDTFSAFGNILSKCVATDEPKNSKGYGFGVHFETEEAANTSIDKVNGMLLNGKKYVVGK	
Homo	74	FTVIKGGPIRIMWSQORDPSLRKSGVGNVFIKNLDKIDNKALYDTFSAFGNILSKCVVDENG-SKGYAPVHFETDEAADKAIKKNGMLLNDIKVIVGK	
C.elegans	95	FBAHFGKPIRIMWSQORDPNSFGAIGNFIKNLDKIDNKALYDTFSAFGNILSKCVATDEPKNSKGYGFGVHFETEEAONAIKVNIGMLLNGKKYVVGK	
S.cervisiae	701	WTFKKGCLGRIMWSQORDPSLRKSGNFIKNLDKIDNKALYDTFSAFGNILSKCVATDEPKNSKGYGFGVHFETEEAONAIKVNIGMLLNGOEIVGK	
P.berghei	109	HTNKGQPIRIMWSQORDPSLRKSGNFIKNLDKIDNKALYDTFSAFGNILSKCVATDEPKNSKGYGFGVHFETEEAONAIKVNIGMLLNGOEIVGK	
Drosophila	165	FILPKRKEIKELGEMAKLITNIVYVKNITFEDFDSKLKEIEEPYIGKITSYKVMSEKEDGSKSGFGFVAETTTTAAEAAYQALNGKIDMG	
Homo	173	FKSKRKEIAELGAKAREFTNIVYVKNIEVEVDPSKLELSCFGKTLISYKVMSEKEDGSKSGFGFVSEYKHEIDANKAVEIDNGKESIS	
C.elegans	195	FQPAARNRELGETAKOFTNIVYVKNIEHYNKETIEKFAKFGNTITSCEVMIVVE-GSKSGFGFVAHANPEAEATVADLHDSITTEG	
S.cervisiae	201	HISPKRKEIKELTAKHTNITNIVYVKNISSETIDFOCELFKAGFPIVTSASEKEDAPKIGFGEVNIYKHEIDANKAVEALNDSEIN	
P.berghei	179	FKKLSER-----TNDTKETNIVYVKNITFTVTEAHLKLELSPYIGKITSIMIKSE-----NNNKEGCTNNSDAISARNALDNLNGKKTEDGKIDINYDYPKEE	
Drosophila	250	-----	EKK
Homo	258	-----	EKK
C.elegans	280	-----	TDL
S.cervisiae	286	-----	EE
P.berghei	273	SEKAANENYNNNNTTSEENATTSETPAEKKITTDSEATNKDAITPGEDQTSANGTTTTVTSTTDAKTEETPNNDNTANAGINASITEKKDKKKSGETSTFNP	
Drosophila	253	SLYVGRAQKKVERQCELKKKFEELKOKRHESEVGNLVVKNLDDTIDDDLILAFSPYCNITSAKVMLEDEGRSKGFGFVCFNNAASEATCAVTEINGRIV	
Homo	260	LIVGRAQKKVERQCAELKKKFEELKOKERTSYQGVNLYVKNLDDTIDDEKLKESESPGITSAKVMLEDEGRSKGFGFVCFSPPEATKAVTEMNGRIV	
C.elegans	283	KLVVGRAQKKSERAEALKKKFEHQHKAERMKYQGVNLYVKNLDDTIDDDLKQCESPGNITSAKVMLEDEGRSKGFGFVCFKEPEATCAVTEMNGRIV	
S.cervisiae	288	KLYVGRAQKKRMHVLKQVAYEYLEKMAKQGVNLYVKNLDDSVDEDLKEEAPYGHITSAKVMLEDEGRSKGFGFVCFSPPEATKATETKNOQIV	
P.berghei	373	LIVGPHQSEARRHAILKAKFEELNTESRNKHFGVNLVYVKNLDDSMNDOTLELEPEYGHITSAKVMLEDEKDCSKGFGFVCFGHEEANKAVTEMLKILIT	
Drosophila	353	GSKPLYVALAQRKEERKAHLASQYMRHETGMRLQQQLGQIQPN-----AASGFFVETIPENR-----FEGSVATPMRNTPRWVQVFPAAIQ	
Homo	359	GSKPLYVALAQRKEERKAHLNQYMRHAGMRPALPANILNQFQ-----PAAGGVVPAVAFQAGRPPIYTPQLAQMRENPRWQCGGRF	
C.elegans	383	GSKPLYVALAQRKEERKAHLASQYMRHASMRLHGN-----VFCAAMNINETQGGG-----IVVAPMOCQRNFAGGOQMVRF	
S.cervisiae	388	GSKPLYVALAQRKEERKESCLAQITQARNNQ-----	
P.berghei	473	NGKPLYVGLAEKREHRLSLQCRGRMNPIRHNNLSLSSIPQPNNTQPLQFNQNTLNLGRGVITTFNNQNLISWRHQQAQAAQQAQVAFQAAAQQLGFN	
Drosophila	438	GVQAQAARAGGFGQTAGAVPTQFRSLAACARGAQFVQGTAAATAAANMNRNTGRRAITC-----	
Homo	444	-----QCFQMPAISIRSGPRPTLRHLAPTESCEPDRLAMDFGAGCAAOGLDTS-----CQSE	
C.elegans	456	-----GSRNEMQNVQPVQGNVMAAQPEPVYONLRGPNQCGGEGFRCPGPQNVQVAGGVQRMQ-----	
S.cervisiae	419	-----VQCATAAAAAAAGMPGPPPPMFYGVMFPPGVPPFGNPGQMMPMGC-----	
P.berghei	573	AGLRQIQINQMLRTQNNMMNHNIQNKASQQLHHNQYSMRPNPOHQTNLNAFQANPQQQLQGTAPVNNQLLNNMNRNMNRNLRNLPGMNQSPKOM	
Drosophila	498	-----QOTAPNMOIPGQOLAGGAQRTSYKYKTNMNRNPPVQLHQTPIPOQLQGNKSEKLEASLANAKAPQE	
Homo	498	-----GVETTVONLAPRAVAAAAAPRAVAPKMASSVRSRHPAIIQPLQAPPAHVQGOEPLTASLAPAPQE	
C.elegans	513	-----SPERTONPGVQOQNVPRFQQOQQQRPAPGGPAPPOFYQAYQQRPGIIGVGOEPLTANLANAPQE	
S.cervisiae	467	-----MPKNMPPQFRNFPPYVVEPQ-----GPFERNNDNNNOFYQK	
P.berghei	673	PLNMIGAKQTNTQNPQGGQPGQPGQPGQPGQVQVQVQSQKQTGSHQQQPIQNSNEKETSQANRMELPNKNAKNMMPNGYNNNTTLTAALASAPBEM	
Drosophila	568	QKQLGERLYPMEHMA--NLAGKITGMLEIDNSELLHMLSDOBANAKVTEAVLQVHRTPEPAN-----	
Homo	567	QKQLGERLYPLIQTHMS--NLAGKITGMLEIDNSELLHMLSPESRSKVDMEAVLQVHAHAKKEAAQKGVAAVAATS	
C.elegans	582	QKQLGERLYLTKLYPGHKDAGKITGMLEIDNSELLHMLDSELFSKVDDEAASVYSAQO	
S.cervisiae	505	QKQLGBOELYKKYSAKTSNEBAAGKITGMLEIDPPQEFPPILSDELPEQFOFYKEASAAYSPKQEQBQQQTEQA	
P.berghei	773	QKQLGELLNPLANPHE--TLAGKITGMLEIDNSELLHMLNENBQKQKKKDEADVLTQNAK	