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Drosophila    1 --MFTSRASFLANRRMIFDFSEKNNDIYLDAEGMSDKSSSATNSLPNSPIHSNNNNPSLL
Homo          1 --------ARASERREGARECERERIKGKKIESMYIKMATLAN-----------------
C.elegans     1 --------------MSGAVLPAVLVVPKMESVVVPIAESTVIN-----------------
P.berghei     1 MNNNTQQQQQQQCQQHQQQQPQQPQQQQQQQQQQQQQQQQYS-----------------

Drosophila   59 NNNNNNSNGTSSNNSLNVGNNNSNPSLGGTNSNALVSVGSNGIMSAAGLVNNNNNPGSAN
Homo         36 --------GQADNASLSTNGLGSSPGSAGHMN--------------GLSHSPGNPSIIP
C.elegans    30 ---------AKTTPSTAADNLVSPSPS-------------------------------
P.berghei    44 --------NENNPSSYGEARINEQEQYIYQMNN---------------------------

Drosophila  119 RNVVAMVDDDACFRLDTDATVTYGEKEPDPDNIKMFVGQVPKSMDESQLREMFEEYGAVH
Homo        73 --------------------------MKDHDAIKLFIGQIPRNLDEKDLKPLFEEFGKIY
C.elegans   49 --------------------------EPDTDAIKMFVGQIPRQWNETDCRRLFEKYGSVF
P.berghei   69 -----------------------PYNPAPSIPVKLFVSSIPKNLTEDDIKLLFEEYGATK

Drosophila  179 SINVLRDKATGISKGCCFVTFYTRKAALKAQDALHNVKTLNGMYHPIQMKPADSENRN--
Homo        107 ELTVLKDRETGMHKGCAFLTYCERESALKAQSALHEQKTLPGMNRPIQVKPADSESRGGS
C.elegans    83 SCNILRDKSTQASKGCCFVTFYHRKDALEAQGALHNIKVLPGMPHPVQMKPADTENRN--
P.berghei   106 DVVFIKDKKPNANRANVFVRMESIYPAQKAIEDLLGKKILCESLGPLIVKPAIGELEKYG

Drosophila  237 ---------ERKLFVGMLNKKLNENDVRKLFEVHGAIEECTVLRDQNGQSKGCAFVTFAT
Homo        167 SCTRQPPSQERKLFVGMLNKQQSEDDVRKLFEAFGNIEECTILRGPDGNSKGCAFVKYSS
C.elegans   141 ---------ERKLFIGQLSKKPNEENLREIFAKFGHIEDCSVLRDQDCKSKGCAFVTFTN
P.berghei   166 INVNNANENAKLFVGSLPKDITDDQIRNIFNRYGNVKEVYIMKNSNGVSKRCAFVNYDY

Drosophila  288 KHAAISAIKVTLSQNKIMEGCTSPLVVKFADTQKEKEQKKIQQIQAN-------------
Homo        227 HAEAQAAINALHG-SQTMPGASSSLVVKFADTDKERTMRRMQQMAGQ-------------
C.elegans   192 RSCAVVATKPMH-SQTMEGCSAPLVVKFADTQKDKDVKTKSMHTGSGAGSPKGGAASLL
P.berghei   226 KEQGIFAVQNLNG-KIAIENAEKPIEVFFAQSKNGLQER---------------------

Drosophila  335 ----------------LWNLASNINIPLGQTATSVTTPILP-------------------
Homo        273 ----------------VG-MFNPVAIPFGAYG-AYAQAMQQ-------------------
C.elegans   251 QNLNPALLQQLGGGQNYQAVASLLSLINGQQGQQQQHQQQQNVLGILGTVLSALGKLTEG
P.berghei   264 ------------------------------------------------------------

Drosophila  360 --------------NPPQQPSPVLGADAITPASIGLLQQLQAVGLQHGLLQALTGLGAQQ
Homo        296 --------------GAALMASVAQGGYLNPMAAFAAAQMQQMAALNMNGLAAAPMTPTSG
C.elegans   311 GDDASAKSSSEKPRHQALMTSPAPTATSSTSSSASHHHQQHQQQLSQQQQQQQHPQQQGL
P.berghei   264 -------------------------QLLNRVLMNPLQMNNNNIDDNNNNGNTINNNSNN

Drosophila  406 SSSADDTSAVAAAGLLTPMTVQNLAALAAMTGPS-----------------------LSN
Homo        342 GSLPPGLLAPAVPSLPSPLGVNGFTGLPPQAN-G-----------------------QPA
C.elegans   371 GNPLLGNPAMAAQNQGDALTMAQIAHQQQMLALGGFAVQQGAPSQQQQGLAGGMAGAKTT
P.berghei   298 NSNKSNNNAYMKSKHPKNVNINTPNRYPMHNNYN-------------------------L

Drosophila  443 AAAAAAARATSPGSAQLTNTAALLWSDPNEMASAYMSTAAGLPQFGSASALSTSPLASVAL
Homo        378 AEAVFANGHPYPAQSP-TAADPLQQAVAGVQQYAGPAAYPAAMGQISQAPPQFPPMIPQ
C.elegans   431 SPVAASLANHQGIALTPFAGGAAALDHFQAMQQYALLANLQATGGVGVQATTSAAQMVGN
P.berghei   333 QNNSNQGRNNNNSIRSPWKQYFSKDDGRFYYHNELTGQTQWHKPRKMDQDFINPLNMN--

Drosophila  503 SAAAAAAAGKQIEGPEGCNLFIYHLPQEFTDIDLASTFLPFGNVISAKVFIDKQTSLSKC
Homo        437 ---------QQREGPEGCNLFIYHLPQEFGDAELMQMFLPFG-----------------
C.elegans   491 ---------GDMKGPDGANLFIYHLPQDFGDSDLINTFAPFGCILSAKVFIDKVTNLSKC
P.berghei   391 -----------EVGPVGANIFIFHIPNEMIQNDLLAAFSPFGNIISAYIATEKDTGRNFG

Drosophila  563 FGFVSFDNPDSAQVAIKAMNGFQVGTKRLKVQLKKPKDS-KPY-----------------
Homo        470 --FVSFDNPASAQTAIQAMNGFQIGMKRLKVQLKKPKDANRPY-----------------
C.elegans   542 FGFVSYENAQSATNAISAMNGFQIGSKRLKVQLKVDEGNPYNR-----------------
P.berghei   440 FAFVSYDNVDSAINAMKYMNGFLAHKKLKVTIKKGEEQYVQALINQRNQLNNTDNRRNF
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