```
                    10        20        30        40        50        60        70        80
                    ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....
H_sapiens           MVM---GLGVLLLVFVLGLGLTPPTL-AQDNSRYTHFLTQHYDAKPQGRDDRYCESIMRRRGL--TSPCKDINTFIHGNKRSIK
M_musculus1         MAI---SPGPLFLIFVLGLVVIPPTL-AQDDSRYTKFLTQHHDAKPKGRDDRYCERMMKRRSL--TSPCKDVNTFIHGNKSNIK
M_musculus2         MAM---SPGPLFLVFLLGLVVIPPTL-SQDDSRYTKFLTQHYDAKPKGRDDRYCESMMVKRKL--TSFCKDVNTFIHDTKNNIK
M_musculus3         MVM---SPGSLLLVFLLSLDVIPPTL-AQDNYRYIKFLTQHYDAKPTGRDYRYCESMMKKRKL--TSPCKEVNTFIHDTKNNIK
M_musculus4         MTM---SPCPLLLVFVLGLVVIPPTL-AQNE-RYEKFLRQHYDAKPKGRDDRYCESMMKERKL--TSPCKDVNTFIHGTKKNIR
M_musculus5         MVI---SPGSLLLVFLLSLDVIPPTL-AQDNYRYKNFLNQHYDAKPTGRDYRYCESMMKKRKL--TSPCKEVNTFIHDTKNNIK
M_musculus6         MVM---SPGSLMLVFVLSLVVISPTL-AKDNYRYIKFLTQHYDAKPTGWDHRYCYLCMMKKRIQETLKCKEANTFIHDTKKNIK
R_norvegicus1       MEM---SLRPLLSVFVLGLVSTPSTL-AQDDPRYTKFLTQHYDAKPKGRDARYCESMMRRRGL--TSPCKEVNTFIHGNKGSIK
R_norvegicus2       MEM---SLRPLLLVFVLSLVATPSTL-AQDDPRYTKFLTQHYDAKPKGRDARYCESMMKRRGL--TSPCKEVNTFIHGNKGSIK
T_francoisi         MVM---GLGLFLLVFMLGLGLTPPTL-AQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGL--TSPCKDINTFIHGNSRHIK
P_avunculus         MVM---GLGLFLLVFMLGLGLTPPTL-AQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGL--TSPCKDINTFIHGNSRHIK
P_bieti             MVM---GLGLFLLVFMLGLGLTPPTL-AQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGL--TSPCKDINTFIHGNSRHIK
P_roxellana         MVM---GLGLFLLVFMLGLGLTPPTL-AQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGL--TSPCKDINTFIHGNSRHIK
P_pygmaeus          MVM---GLGVLLLVFMLGLGLTPPTL-AQDNSRYTDFLAQHYDPKPQGRDDRYCESIMRRRGL--TSPCKGINTFIHGSKRSIK
C_aethiops          MVM---GLGLFLLVFMLGLGLTPPTL-AQDNSRYRDFLAKHYDATPQGRNDRYCESTMRRRHL--TSPCKDINTFIHGNRHHIK
S_scrofa            MVI---LLGPLLLVFMLGLGLAPLSL-AKDEDRYTHFLTQHYDAKPKGRDGRYCESIMKQRGL--TRPCKEVNTFIHGTRNDIK
M_talapoin          MVM---GLGLFLLVFMLGLGLTSPTL-AQDNSRYRDFLSKHYDARPQGRNDRYCDSMMRRQGM--TSPCKDINTFIHGNRRSIR
P_troglodytes       MVM---GLGVLLLVFVLGLGLTPPTL-AQDNSRYTHFLTQHYDAKPQGRDHRYCESIMRRRGL--TSPCKDINTFIHGNKRSIK
M_mulata            MVM---GLGLFLLVFMLGLGLTPPTL-AQDNPRYRDFLAKHYDATPQGRNDRYCESTMRRRHL--TSPCKDINTFVHGNRHHIT
E_caballus          MAM---SLCPLLLVFVLGLGLTPPSL-AQDDSRYRQFLTKHYDANPRGRNDRYCESMMVRRHL--TTPCKDTNTFIHGSKSSIK
S_oedipus           MVM---GLHLLFLVFILGLGLTPPTL-AQNDLRYNRFLEEHYDPKTKNGNDRYCDKMMRLRNM--ISPCKAINTFIHGKKESIK
B_taurus            MVM---VLSPLFLVFILGLGLTPVAP-AQDDYRYIHFLTQHYDAKPKGRNDEYCFNMMKNRRL--TRPCKDRNTFIHGNKNDIK
S_sciureus          MVM---GPHLLLLVFILGLGLTPPTL-AQNDSRYIKFLDQHYDPKTKNGNDKYCEKMMRLRNM--ISPCKEINTFIHGNKASIK
A_trivirgatus       MVM---GLHLLLLVFILGLGLTPPTL-AQNDIRYIKFLDQHYDPKTKNGNDKYCEKMMRLRNM--ISPCKEINTFIHGNKASIK
P_hamadryas         MVM---GLGLFLLVFMLGLGLTLPTL-AQDNFRYRDFLAKHYDGTPEGRNDRYCESTMRRRHL--TSPCKDTNTFIHGNRHHIN
C_guereza           MVM---GLGLFLLVFLLGLGLTPPTL-ALDNPRYRDFLTKHYDATPQGRNDRYCESKMRKLGL--TSPCKAINTFIHGNSRHIK
M_domestica         MVMFLKAMDPFLLLFILGLWLVPPSLTTQANAREKHFLIQHYDSKPKGRDDKYCTAIMRQRGL--TQPCKDMNTFIHGDYPSIK

                    110       120       130       140       150       160       170
                    ....|....|....|....|....|....|....|....|....|....|....|....|....|
H_sapiens           RISKSSFQVTTCKLHGGSPWPPCQYRATAGFRNVVVACENGLPVHLDQSIFR-------------------RP--
M_musculus1         RMSKSPFQVTTCKHTGGSPRPPCQYRASAGFRHVVIACENGLPVHFDESFF-------------------SL--
M_musculus2         RISKSHFQVTTCTHKGRSPRPPCRYRASKGFRYIIIGCENGWPVHFDESFI-------------------SP--
M_musculus3         RISNSRFQVTTCTHKGGSPRPPCQYNAFKDFRYIVIACEDGWPVHFDESFI-------------------SP--
M_musculus4         RISNSPFQITTCTHSRGSPWPPCGYRAFKDFRYIVIACEDGWPVHFDESFI-------------------SP--
M_musculus5         RISNSRFQITTCKHKGGSPKPPCQYKAFKDFRYIVIACEDGWPVHFDESFI-------------------SM--
M_musculus6         RISNSPFQITTCNHSGGSPKPPCQYRDFKDFRYIVIACEDAWPVHFDESFI-------------------SL--
R_norvegicus1       RISQSPFQITTCKHTGGSPRPPCRYRASAGFRHVVIACENGLPVHFDESFI-------------------SL--
R_norvegicus2       RISQSPFQITTCKHTGGSPRPPCRYRASAGFRHVVIACENGLPVHFDESFISLYSAGPRRRPSSVLFLSPLTPEH
T_francoisi         RISKSPFQVTTCNLRGGSPWPPCRYRATAGFRNIVVACENDLPVHLDQSIF-------------------HP--
P_avunculus         RISKSPFQVTTCNLRGGSSRPPCRYRATAGFRNIVVACENDLPVHLDQSIF-------------------RP--
P_bieti             RISKSPFQVTTCNLRGGSSRPPCRYRATAGFRNIVVACENDLPVHLDQSIF-------------------RP--
P_roxellana         RISKSPFQVTTCNLRGGSSRPPCRYRATAGFRNIVVACENDLPVHLDQSIF-------------------RP--
P_pygmaeus          RISKSSFQVTTCKLHGGSPWPPCHYRATADFRNIVVACENGLPVHLDQSIFR-------------------RL--
C_aethiops          RISKSPFQVTTCNLRGGSPRPPCQYRATRGSRNIVVGCENGLPVHLDESIF-------------------RP--
S_scrofa            RRSKSPFQITTCKHKGGSNRPPCGYRATAGFRTIAVACENGLPVHFDESFI-------------------ITSQ
M_talapoin          RISRTPFQVTTCNLRGGSPRPPCRYRATAGFRNIVVACENGLPVHLDQSIF-------------------RP--
P_troglodytes       RISKSSFQVTTCKLHGGSPWPPCQYRATAGFRNVVVACENGLPVHLDQSIFR-------------------RP--
M_mulata            RISTSPFQVTTCKLRGGSPRPPCQYRATRGSRNIVVGCENGLPVHLDESIF-------------------RP--
E_caballus          RISKTRFQVTTCKHAGGSPRPPCRYRATPGFRSIVIACENGLPVHFDESFF-------------------RP--
S_oedipus           RKSKSAFQVTICKHRGGSPRPPCQYRATAGSRNVVVACENGLPVHLDESIF-------------------RP--
B_taurus            RISKSEFQITICKHKGGSSRPPCRYGATEDSRVIVVGCENGLPVHFDESFI-------------------TPRH
S_sciureus          RISTSAFQVTICRHIGGSPRPPCRYRATAGFRNIVIACENGLPVHLDESIF-------------------RP--
A_trivirgatus       RISKSAFQVTICRHIGGSPRPPCRYRATAGFRNLVVACENDLPVHLDESIF-------------------RP--
P_hamadryas         RISKSPFQVTTCKLHGGSPRPPCRYRATRGSRNIVVGCENGLPVHLDESIF-------------------RP--
C_guereza           RISKSPFQVTTCNLRGGSPRPPCRYRATAGFRNIVVACENDLPVHLDQSIF-------------------RP--
M_domestica         RISKSRFQVTNCEHRGGSTKPPCKYRATSDFRYIIIACENNLPVHLDQTII-------------------AK--
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