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H._sapiens      MATATEQWVLVEMVQALYEAPAYHLILEGILILWIIR-LLFSKTYKLQE--RSDLTVKEKEELIEEWQPEPLVPPVPKDHP---ALNYNIVSGPPSHKTVVNGKECINFASFNFLGLLDNPRVKAAALASLKKYGVGTCGPRGFYGTFDV   150
M._musculus     MATVAEQWVLVEMVQALYEAPAYHLILEGILILWIIR-LVFSKTYKLQE--RSDLTAKEKEELIEEWQPEPLVPPVSKNHP---ALNYNIVSGPPTHNIVVNGKECVNFASFNFLGLLANPRVKATAFSSLKKYGVGTCGPRGFYGTFDV   150
D._rerio        MASG-QQWVLVEMVQAFYEAPAYHLILEGFLILWIIR-LLFSKTYKLQE--RSDLTEKEKEELIEEWQPEPLVSPVSKDHP---SLNYDVVTGPPSHKIIVNGKECINFASFNFLGLLDNERVKLKALASLKKYGVGTCGPRGFYGTFDV   150
C._gigas        ---------MYDMFQALLQAPSYHLFFEALLIIWIFKLLFFSKAYAP----ESVLTEKEKEELIAEWQPEPLAPEIPDDHPVLMAMENNIITGKPGKYVTINGKSCVNMATLNFLGMAGNPSVEAEAIKTLKKYGVGSCGPRGFYGTMDV   150
C._elegans      ---------------MGFLPDSWHFYIETLLVALLAYVVMRNRSKRQQEKLSKKLTERQKDELIADWTPEPLVPETPQDHP---VLNPKYADGKMTKDVSIDGEKYLNMASTNFLSFIGVKRIEDRAKQTIFKYGVGSCGPRGFYGTVDV   150
                1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150

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H._sapiens      HLDLEDRLAKFMKTEEAIIYSYGFATIASAIPAYSKRGDIVFVDRAACFAIQKGLQASRSDIKLFKHNDMADLERLLKEQEIEDQKNPRKARVTRRFIVVEGLYMNTGTICPLPELVKLKYKYKARIFLEESLSFGVLGEHGRGVTEHYG   300
M._musculus     HLDLEERLAKFMKTEEAIIYSYGFSTIASAIPAYSKRGDIIFVDSAACFAIQKGLQASRSDIKLFKHNDVADLERLLKEQEIEDQKNPRKARVTRRFIVVEGLYMNTGTICPLPELVKLKYKYKARIFLEESLSFGVLGEHGRGVTEHYG   300
D._rerio        HLELEERLAKFMRTEEAIIYSYGFATIASAIPAYSKRGDIIFVDEAACFSIQKGLQASRSFIKYFKHNDMEDLERLLKEQEIEDQKNPRKARVIRRFILVEGLYINTADICPLPELVKLKYKYKVRIFLEESMSFGVLGEHGRGVTEHFG   300
C._gigas        HLELEDKIAKFMNCEEAILYAFGFATIASAIPAYSKRGDVIFADEGVCFAIQKGLVASRSKIKWFKHNDMEDLERLLIEQAKEDKKNPKKAKVTRRFLVVEGLYINYGDLCPLPKLVELKWKYKVRLFLEESLSFGILGSNGKGVTEHYN   300
C._elegans      HLDLEKELAKFMGCEEAVLYSYGFATVSSAIPAYAKKGDVIFVDEGVNFAIQKGLQASRSRVEYFKHNDMEHLERLLLEQEQRDKKDPKKAKSVRRFIVVEGLYVNYADLCPLPKIIEFKWRFKVRVFIDESWSFGVIGKTGRGVTEHFN   300
                .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300

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H._sapiens      INIDDIDLISANMENALASIGGFCCGRSFVIDHQRLSGQGYCFSASLPPLLAAAAIEALNIMEENPGIFAVLKEKCGQIHKALQGISG---LKVVGESLSPAFHLQLEESTGSREQDVRLLQEIVDQCMNR-SIALTQARYLEKEEKCLP   450
M._musculus     ISIDDIDLISANMENALASVGGFCCGRSFVVDHQRLSGQGYCFSASLPPLLAAAAIEALNIMEENPDIFAVLKKKCQNIHKSLQGVSG---LKVVGESLSPALHLQLEESTGSREKDVKLLQAIVDQCMDK-GIALTQARYLDKEEKCLP   450
D._rerio        VNIDDIDLISANMENALASIGGFCCGRSFVIDHQRLSGQGYCFSASLPPMLAAAAIEALNIMEEDPGIFRVLREKCRNVHKALQGTAG---LKVVGESFAPALHLQLENSTGSRVNDLKLLRAIVDYSLDR-QVALTLARYLDKEERFLP   450
C._gigas        ISPDDIDLIAASLENAIGSTGGFCCGKKYIVDHQRLSGLGYCFSASLPPMLATAAIESLRLIDEKPGMLVELRENCEKIHSKLSDING---TVIVGEPISPVKHIRLAEPSTDRDFDVQTLQKIADLSRDN-KVAVTLARYLEEEEHKLP   450
C._elegans      VPMEDVDMVMASLENALASTGGFCVGRSYVVGHQRLSGLGYCFSASLPPLLATAASEAISIIDEEPSRVQKVTEMAINGQKKLQDALSGSKFSLQGCPESPMKHIYYNG-----EDEEKQLDTFVETVFTKNHLLLTRARYLDKDELFKI   450
                .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450

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H._sapiens      PPSIRVVVTVEQTEEELERAASTIKEVAQAVLL-   484
M._musculus     PPSIRVVVTVEQTEEELQRAASTIREAAQAVLL-   484
D._rerio        PPSIRVVVTVEQTQEEIEKAAQCIREAALHVLK-   484
C._gigas        LPSIRISVNNQLSDEEIDTVFTTLSEAFQKIITH   484
C._elegans      RPSIRVMFQHDLTEEEIQRAVDAIRVVAHKF---   484
                .......460.......470.......480....
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