```
gi|45555716|ref|NP_996485.1|      MEHFHQIQQTIQHYQQQLAAQQQQQVQQQQLQQHQVVVQQNQQQAHQNSSNTTAGVGTQQLFTYKMASSFPNPATTMAQV-VATSNAAGTTGYDYRLNMAQAAAAAAVPGSQWWYSAANQGQVDANTAAQLQHQQQQQQQQQQQQQQHQ   150
gi|158289425|ref|XP_311155.3|     ---------------------------------------------------------QLFSYKMANSFQNPVTTMSGVTVSTSNAP----YDYRLGMSTVVARPGDPPTMSSTAPTTQCKHRLIYYREIHHQNVNHKSLIIGTEFIFL   150
gi|51762947|ref|XP_485920.1|      ------------------------------------------------------------------------------------------------------------------------------   150
gi|109459982|ref|XP_001055841.1| ------------------------------------------------------------------------------------------------------------------------------   150
gi|114649257|ref|XP_001140879.1| ------------------------------------------------------------------------------------------------------------------------------   150
gi|4504425|ref|NP_002119.1|      ------------------------------------------------------------------------------------------------------------------------------   150
gi|50950133|ref|NP_001002937.1|  ------------------------------------------------------------------------------------------------------------------------------   150
gi|41386729|ref|NP_788785.1|     ------------------------------------------------------------------------------------------------------------------------------   150
gi|45382473|ref|NP_990233.1|     ------------------------------------------------------------------------------------------------------------------------------   150
gi|42476233|ref|NP_955849.2|     ------------------------------------------------------------------------------------------------------------------------------   150
gi|17553928|ref|NP_498375.1|     ------------------------------------------------------------------------------------------------------------------------MNSGYSANIFPSS   150
                                  1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
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                                                                                                                                                                                                                                                                                                                                                                                                           
gi|45555716|ref|NP_996485.1|      QQQQMQQQQQQQQNVINSASPMSRVKADAKP--RGRMTAYAYFVQTCREEHKKKHPDETVIFAEFSRKCAERWKTMVDKEKKRFHEMAEKDKQRYEAEMQNYVPPKGAVVGRGKKRKQIKDPNAPKRSLSAFFWFCNDERNKVKALNPEFG   300
gi|158289425|ref|XP_311155.3|     SQAHVQNNVILNKMVTGGTVAGGKVKDNKP--RGRMTAYAFFVQTCREEHKKKHPEEQVIFAEFSRKCAERWKTMLDKEKQRFHEMAEKDKARYELEMQSYVPPKGAVVGRGKKRKQFKDPNAPKRSLSAFFWFCHDERNKVKALNPEYG   300
gi|51762947|ref|XP_485920.1|      --------------------MGKGDPKKP--RGKMYSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMYAKEKGKFEDIAKADKARYEREMKTYIPPK------GETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLS   300
gi|109459982|ref|XP_001055841.1| --------------------MGKGDPKKP--RGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPK------GETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLS   300
gi|114649257|ref|XP_001140879.1| --------------------MGKGDPKKP--RGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPK------GETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLS   300
gi|4504425|ref|NP_002119.1|       --------------------MGKGDPKKP--RGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPK------GETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLS   300
gi|50950133|ref|NP_001002937.1|  --------------------MGKGDPKKP--RGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPK------GETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLS   300
gi|41386729|ref|NP_788785.1|      --------------------MGKGDPKKP--RGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPK------GETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLS   300
gi|45382473|ref|NP_990233.1|      --------------------MGKGDPKKP--RGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSSKEKGKFEDMAKADKLRYEKEMKNYVPPK------GETKKKFKDPNAPKRPPSAFFLFCSEFRPKIKGEHPGLS   300
gi|42476233|ref|NP_955849.2|      --------------------MGK-DPTKP--RGKMSSYAYFVQTCREEHKKKHPEATVNFSEFSKKCSERWKTMSAKEKGKFEDMAKLDKARYEREMKNYIPPK------GEKKKRFKDPNAPKRPPSAFFIFCSEFRPKVKEETPGLS   300
gi|17553928|ref|NP_498375.1|      SSPTLYQSHQLQPNPSATMYQATPRDMGKPPVRGKTSPYGFFVKMCYEEHKKKYPNENVQVTEISKKCSEKWKTMVDDEKRRFYELAQKDAERYQAEVSVAAYGGED--AMRKRKRAKKDPHAPKRALSAFFFYSQDKRPEIQAGHPDWK   300
                                  .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
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                                  :*::*:.**. *.    : *: **. *   * :*                                  .:: ..  . :: : ::
gi|45555716|ref|NP_996485.1|      VGDIAKELGRKWSDVDPEVKQKYESMAERDKARYEREMTEYKTSGKIAMSAPSMQASMQAQAQKAALLAAAAQQQHQQLEEQHDDDDGDGDDDENQ   396
gi|158289425|ref|XP_311155.3|     VGDIAKELGRKWSDMDAEIKQKYEQMAEKDKQRYEQVRLTPALAPRHVQAAAQLQAQVVQAQQAAAVAAAAAAAVQQQHDDDDEDEDGDEDDNE--   396
gi|51762947|ref|XP_485920.1|      IGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEK-DIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEDDKEDEEDEEEEEEEEDEDEEEDDDDE-   396
gi|109459982|ref|XP_001055841.1| IGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEK-DIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEDDEEDEEDEEEEEEEEDEDEEEDDDDE-   396
gi|114649257|ref|XP_001140879.1| IGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEKKDIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEDDEEDEEDEEEEEEEEDEDEEEDDDDE-   396
gi|4504425|ref|NP_002119.1|       IGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEK-DIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEEDEEDEEDEEEEEEEDEDEDEEEDDDDE-   396
gi|50950133|ref|NP_001002937.1|  IGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEK-DIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEEDEEDEEDEEEEEEEDEDEEEDDDDE-   396
gi|41386729|ref|NP_788785.1|      IGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEK-DIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEEDEEDEEDEEEEEEEDEDEEEEEDDDDE-   396
gi|45382473|ref|NP_990233.1|      IGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEK-DIAAYRAKGKVDAGKKVVAKAEKSKKKKEEEEDEDEDEEDEEEEEEEEEDDDDDE-   396
gi|42476233|ref|NP_955849.2|      IGDVAKRLGEMWNKISSEEKQPYEKKAAKLKEKYEK-DIAAYRSKGKVGGG------AAKAPSKPDKANDEDEDDDEEEDEDDDEEEEDDE----   396
gi|17553928|ref|NP_498375.1|      VGQVAQELGKMWKLVPQETKDMYEQKAQADKDRYAD-------------------EMRNYKAEMQKMSGMDHYDDDNIHHVVHVEDINSQNIS--   396
                                  .......310.......320.......330.......340.......350.......360.......370.......380.......390......
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