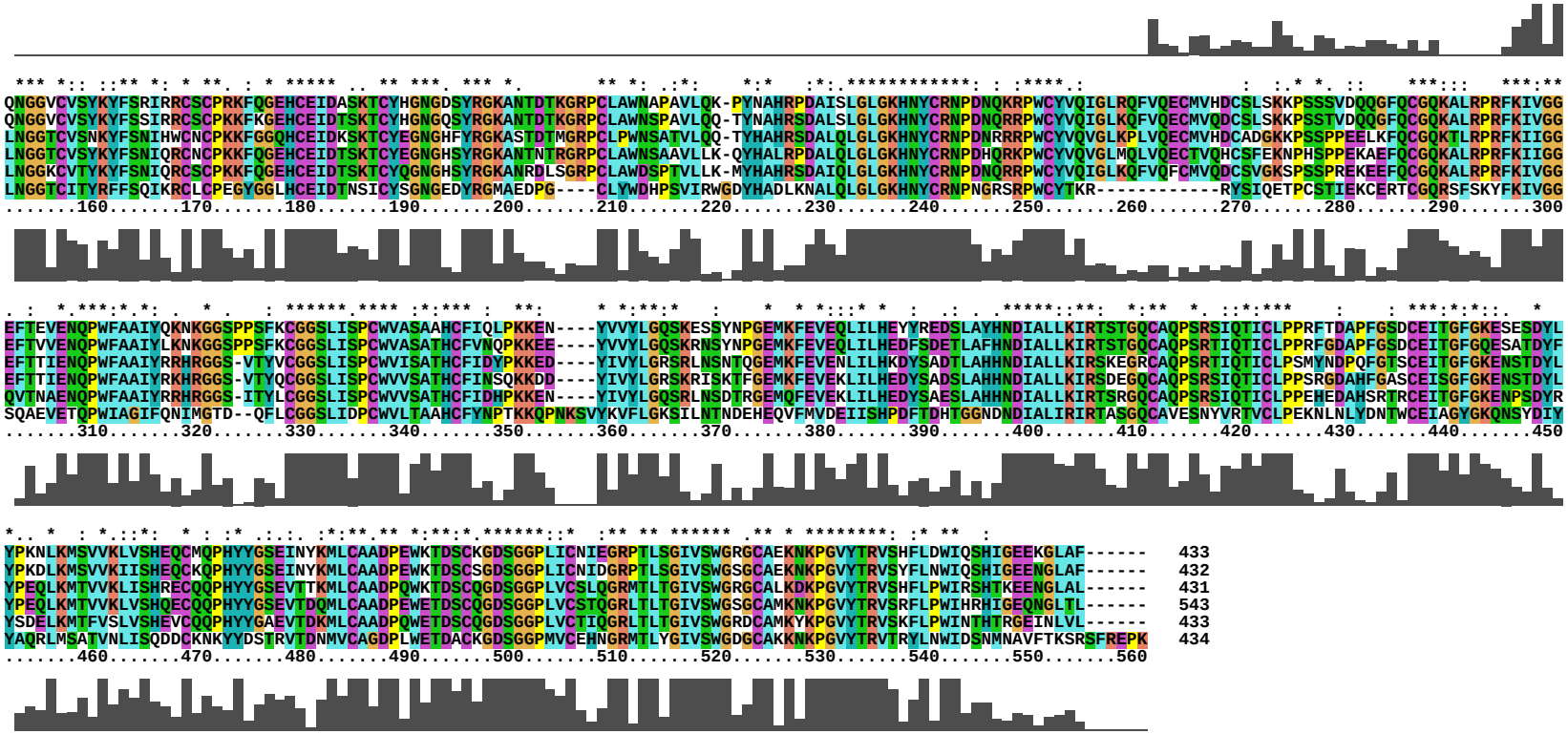```
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
gi|6679377|ref|NP_032899.1|  ----------------------------------------------------------------------------------------------------------------:      :   :                    :* *
gi|31377491|ref|NP_037217.2| ----------------------------------------------------------------------------------------------------------------MKVWLASLFLCALVVKNSEGGSVLGAPD------ESNCGC    34
gi|4505863|ref|NP_002649.1|  ----------------------------------------------------------------------------------------------------------------MRVWLASLFLCALVA-NSEGGSELEASD------ESNCGC    33
gi|73953561|ref|XP_536394.2| ----------------------------------------------------------------------------------------------------------------MRALLARLLLCVLVVSDSKGSNELHQVP-------SNCDC    33
gi|27806475|ref|NP_776572.1| MPLDPSVQTSLVPCAGGRAAPRSQPRPWKPTGPGRGCPQGSRGKERVGEIPGWGGARAGAGPDIDRAPQPASGTARPPEPQSLADCPSPSGSLRPGSASPRRSYRAAARSLSPATMRALMTCLLLGALVGSHEFHPVSS-----ASNCSC   145
gi|45382101|ref|NP_990774.1| ----------------------------------------------------------------------------------------------------------------MRVLLACLLVCALVVSDSDGSNEVHKESG-----ESNCGC    35
gi|45382101|ref|NP_990774.1| ----------------------------------------------------------------------------------------------------------------MKLIIFLTVTLCTLVTGLDSVYIRQYYKLSHKHRPQHRECQC    42
                             1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150

                              *** *:: ::** *: * **. : * *****  ..  ** ***. *** *.       ** *: .:*:    *:*   :*:.************: : :****.:              :  :.* *. ::    ***:::   ***:**
gi|6679377|ref|NP_032899.1|  QNGGVCVSYKYFSRIRRCSCPRKFQGEHCEIDASKTCYHGNGDSYRGKANTDTKGRPCLAWNAPAVLQK-PYNAHRPDAISLGLGKHNYCRNPDNQKRPWCYVQIGLRQFVQECMVHDCSLSKKPSSSVDQQGFQCGQKALRPRFKIVGG   183
gi|31377491|ref|NP_037217.2| QNGGVCVSYKYFSSIRRCSCPKKFKGEHCEIDTSKTCYHGNGQSYRGKANTDTKGRPCLAWNSPAVLQQ-TYNAHRSDALSLGLGKHNYCRNPDNQRRPWCYVQIGLKQFVQECMVQDCSLSKKPSSTVDQQGFQCGQKALRPRFKIVGG   182
gi|4505863|ref|NP_002649.1|  LNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQ-TYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGKKPSSPPEELKFQCGQKTLRPRFKIIGG   182
gi|73953561|ref|XP_536394.2| LNGGTCVSYKYFSNIQRCNCPKKFQGEHCEIDTSKTCYEGNGHSYRGKANTNTRGRPCLAWNSAAVLLK-QYHALRPDALQLGLGKHNYCRNPDHQRKPWCYVQVGLMQLVQECTVQHCSFEKNPHSPPEKAEFQCGQKALRPRFKIIGG   294
gi|27806475|ref|NP_776572.1| LNGGKCVTYKYFSNIQRCSCPKKFQGEHCEIDTSKTCYQGNGHSYRGKANRDLSGRPCLAWDSPTVLLK-MYHAHRSDAIQLGLGKHNYCRNPDNQRRPWCYVQIGLKQFVQFCMVQDCSVGKSPSSPREKEEFQCGQKALRPRFKIVGG   184
gi|45382101|ref|NP_990774.1| LNGGTCITYRFFSQIKRCLCPEGYGGLHCEIDTNSICYSGNGEDYRGMAEDPG----CLYWDHPSVIRWGDYHADLKNALQLGLGKHNYCRNPNGRSRPWCYTKR------------RYSIQETPCSTIEKCERTCGQRSFSKYFKIVGG   176
                             .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300

                             .  :  *.***:*.*:  .  *  .   : ******.**** :*:*** :  **:     * *:**:*   :    *  * *:::* *  :  .:  .  .*****:.**:  *:**  *. ::*:***    :    : ***:*:*::.  *
gi|6679377|ref|NP_032899.1|  EFTEVENQPWFAAIYQKNKGGSPPSFKCGGSLISPCWVASAAHCFIQLPKKEN----YVVYLGQSKESSYNPGEMKFEVEQLILHEYYREDSLAYHNDIALLKIRTSTGQCAQPSRSIQTICLPPRFTDAPFGSDCEITGFGKESESDYL   329
gi|31377491|ref|NP_037217.2| EFTVVENQPWFAAIYLKNKGGSPPSFKCGGSLISPCWVASATHCFVNQPKKEE----YVVYLGQSKRNSYNPGEMKFEVEQLILHEDFSDETLAFHNDIALLKIRTSTGQCAQPSRTIQTICLPPRFGDAPFGSDCEITGFGQESATDYF   328
gi|4505863|ref|NP_002649.1|  EFTTIENQPWFAAIYRRHRGGS-VTYVCGGSLISPCWVISATHCFIDYPKKED----YIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQTICLPSMYNDPQFGTSCEITGFGKENSTDYL   327
gi|73953561|ref|XP_536394.2| EFTTIENQPWFAAIYRKHRGGS-VTYQCGGSLISPCWVVSATHCFINSQKKDD----YIVYLGRSKRISKTFGEMKFEVEKLILHEDYSADSLAHHNDIALLKIRSDEGQCAQPSRSIQTICLPPSRGDAHFGASCEISGFGKENSTDYL   439
gi|27806475|ref|NP_776572.1| QVTNAENQPWFAAIYRRHRGGS-ITYLCGGSLISPCWVVSATHCFIDHPKKEN----YIVYLGQSRLNSDTRGEMQFEVEKLILHEDYSAESLAHHNDIALLKIRTSRGQCAQPSRSIQTICLPPEHEDAHSRTRCEITGFGKENPSDYR   329
gi|45382101|ref|NP_990774.1| SQAEVETQPWIAGIFQNIMGTD--QFLCGGSLIDPCWVLTAAHCFYNPTKKQPNKSVYKVFLGKSILNTNDEHEQVFMVDEIISHPDFTDHTGGNDNDIALIRIRTASGQCAVESNYVRTVCLPEKNLNLYDNTWCEIAGYGKQNSYDIY   324
                             .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450

                             *.. *  : *.::*:  * : :* .:.:. :*:**.** *:**:*.******:.*  :** ** ******  .** * ********: :* **  :
gi|6679377|ref|NP_032899.1|  YPKNLKMSVVKLVSHEQCMQPHYYGSEINYKMLCAADPEWKTDSCKGDSGGPLICNIEGRPTLSGIVSWGRGCAEKNKPGVYTRVSHFLDWIQSHIGEEKGLAF------   433
gi|31377491|ref|NP_037217.2| YPKDLKMSVVKIISHEQCKQPHYYGSEINYKMLCAADPEWKTDSCSGDSGGPLICNIDGRPTLSGIVSWGSGCAEKNKPGVYTRVSYFLNWIQSHIGEENGLAF------   432
gi|4505863|ref|NP_002649.1|  YPEQLKMTVVKLISHRECQQPHYYGSEVTTKMLCAADPQWKTDSCQGDSGGPLVCSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPWIRSHTKEENGLAL------   431
gi|73953561|ref|XP_536394.2| YPEQLKMTVVKLVSHQECQQPHYYGSEVTDQMLCAADPEWETDSCQGDSGGPLVCSTQGRLTLTGIVSWGSGCAMKNKPGVYTRVSRFLPWIHRHIGEQNGLTL------   543
gi|27806475|ref|NP_776572.1| YSDELKMTFVSLVSHEVCQQPHYYGAEVTDKMLCAADPQWETDSCQGDSGGPLVCTIQGRLTLTGIVSWGRDCAMKYKPGVYTRVSKFLPWINTHTRGEINLVL------   433
gi|45382101|ref|NP_990774.1| YAQRLMSATVNLISQDDCKNKYYDSTRVTDNMVCAGDPLWETDACKGDSGGPMVCEHNGRMTLYGIVSWGDGCAKKNKPGVYTRVTRYLNWIDSNMNAVFTKSRSFREPK   434
                             .......460.......470.......480.......490.......500.......510.......520.......530.......540.......550.......560
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