


```
NTDB id 109658 A9Y61 RS10560 WP 196211034.1  MNKTLKRQVFRHTALYAAILMFSHTGGGGGGGQAQARDYAIIMNGRNQPEVKSHV.PSSIKDKDRKRKYTHHKYKTGGGS   79
NTDB id 1090 CAA90909.1 1..3114( )           MNKTLKRQVFRHTALYAAILMFSHTGGGG..AMAQTHKYAIIMNERNQLEVKGNGQYSTIKDKDRERKFIYNKDRGGGGS   78
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!*** !! * !!!!!! !!!*!!! * **!*!!!!!! !!* **! * !!!!
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NTDB id 109658 A9Y61 RS10560 WP 196211034.1  VSFDNSDELVSQQSGTAVFGTATYLPPYGKVSGFDADALKERVNAAGWIRTTRIALAGYSYADVVCRSGTGCPKLVYKTR   159
NTDB id 1090 CAA90909.1 1..3114( )           VFFDNTDTLVSQQRGTAVFGTATYLPPYGKVSGFDADGLQKRNNAVDWIHTTQAGLAGYAYTDVICRSN.QCPQLVYETK   157
consensus                                    ! !!!*! !!!!! !!!!!!!!!!!!!!!!!!!!*! ! !! !!*!! *!!!! ! !!*!!! * !! !!! !*
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NTDB id 109658 A9Y61 RS10560 WP 196211034.1  FTFGQQGLKKKVGSKLDIYEDKSRENSPIYKLSDYPWLGVSFNLGSENTVKDGKSFNKLISSFSEDNNNQTIVSTTEDRP   239
NTDB id 1090 CAA90909.1 1..3114( )           FSFDGIGLAKNAGS.LDRHPDPSRENSPIYKLKDHPWLGVSFNLGSENTVKDGKSFNKLISSFSEGNNNQTIVSTTRGHS   236
consensus                                    !*!   !! !  !!*!! **!*!!!!!!!!!! !*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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NTDB id 109658 A9Y61 RS10560 WP 196211034.1  ISLGDPQREHTAVAYYLNAKLHLLDKKKIEDIAQGKTVRLGVLKPSIDVWQGNTGLVSLLGFHATWDIKDTGQIPVKLGL   319
NTDB id 1090 CAA90909.1 1..3114( )           ISLSDWKREHTAMAYYLNAKLHLLDKKGIEDIAQGKTVDLGTLRPRVEATVR...RGELLNFWATWKIEDKGNITVRLGL   313
consensus                                    !!! !* !!!!!*!!!!!!!!!!!!!!! !!!!!!!!!!! !! !*! **    ***    !! !*!!! ! ! !*!*!*!!!
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NTDB id 109658 A9Y61 RS10560 WP 196211034.1  PTVKAGRCINKPNPNPKSKAPSPALTAPALWFGPVQNGKVQMYSASVSTYPDSSSSKIFLQNLSRNDDKNKPGRYSLKPL   399
NTDB id 1090 CAA90909.1 1..3114( )           PEVKAGRCVNKANPNPNAKAPSPALTAPALWFGPVKDGKAEMYSASVSTYPDSSSSRIYLQNLKRKTDPGKPGRHSLETL   393
consensus                                    ! !!!!!!*!!*!!!!  !!!!!!!!!!!!!!!!!  !!  !!!!!!!!!!!!!!!!*!*!!!! !  !* !!!!*!! *!
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NTDB id 109658 A9Y61 RS10560 WP 196211034.1  SENEIKSKEPSFMGRETIIRLDDGVHLIKLNGSKDEVAAFVNLNGNNTGKNDTFGIVKEANVNLEADEWKKVLLPWTVRG   479
NTDB id 1090 CAA90909.1 1..3114( )           TENDIKSREPNFTGRQTIIRLNGGVREIKLDRNNTEVVNFNG....NDGNNDTFGIVKDLGVEPDTSEWKKVLLPWTVRG   469
consensus                                    *!!*!!!*!! ! !! !!!!!  !!* !!!     !!  !  ****! ! !!!!!!!!*  ! **  !!!!!!!!!!!!!
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NTDB id 109658 A9Y61 RS10560 WP 196211034.1  PGNDNKFKSINQK.....PDKYSQRYRIRE..NGNRDLGDIVNSPIVAVGGYLATAANDGMVHIFKKNGGSDERSYNLKL   552
NTDB id 1090 CAA90909.1 1..3114( )           FADDNKFKAFNKEENNDNKPKYSQKYRSRDNNKGERNLGDIVNSPIVAVGEYLATSANDGMVHIFKQSGG.DKRSYNLKL   548
consensus                                    ** !!!!!  !  *******!!!!*!! !*** ! ! !!!!!!!!!!!!! !!!! !!!!!!!!!!  !!*! !!!!!!!
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logo
NTDB id 109658 A9Y61 RS10560 WP 196211034.1 SYIPGTMPRQYFDNDTSALKGSTLAQELRTFAEKGYVGDRYGVDGGFVLRQVE.LRGQKHVFMFGAMGLGGRGAYALDLS 631
NTDB id 1090 CAA90909.1 1..3114( ) SYIPGTMPRKDIQNTE.....STLAKDVRTFAEKGYVGDRYGVDGGFVLRKVDNLNGQNRVFMFGAMGFGGRGAYALDLT 623
consensus
logo
NTDB id 109658 A9Y61 RS10560 WP 196211034.1 KIDGNYPAAAPLFDVKNGDNNGKNRVEVELGYTVGTPQIGKIRNGTYSAFLASGYAAKEID.DPTNKTALYVYDLKNT.L 709
NTDB id 1090 CAA90909.1 1..3114( ) KADGSDPTAVSLFDVKDNGNNGNNRV..ELGYTVGTPQIGKTHDGKYAAFLASGYATKEITSGDNKTALYVYDLEGNGT 701
consensus
logo
NTDB id 109658 A9Y61 RS10560 WP 196211034.1 GTPIRKIDVKDGKGGLSSPTLVDKDLDGIVDIAYAGDRGGKMYRFDLSNSDPSKWSVSTIFEGAKPITSAPAVSRLADKR 789
NTDB id 1090 CAA90909.1 1..3114( ) NNLIKKIEVPGGKGGLSSPTLVDKDLDGTVDIAYAGDRGGNMYRFDLSSQDPQQWSVRTIFEGTKPITSAPAISQLKDKR 781
consensus
logo
NTDB id 109658 A9Y61 RS10560 WP 196211034.1 VVIFGTGSDLSEDDVLNTDEQYIYGIFDDDEGTVKVTVQNGTGGGLLEQVLSEEN..KTLFL..NKRSDGSGSKGWAVKL 865
NTDB id 1090 CAA90909.1 1..3114( ) VVIFGTGSDLSEEDVDNMEEQYIYGIFDDDTATTGTVNFSDSGGGLLEQVLRRDNDNKTLFLTDYKRSDGSGNKGWVVKL 861
consensus
logo
NTDB id 109658 A9Y61 RS10560 WP 196211034.1 TGGQRVTVKPIVVLRTAFVTIRKYKD.GGCGAETAILGINTADGGALTPRSARPIVPEANKDVAQYSGHKKTAGGKSVPI 944
NTDB id 1090 CAA90909.1 1..3114( ) KDGQRVTVKPTVVLRTAFVTIHKYTGTDKCGAETAILGINTADGGKLTKKSARPIVPEANTAVAQYSGHKKGTNGKSIPI 941
consensus
logo
NTDB id 109658 A9Y61 RS10560 WP 196211034.1 GCMEKGGKTVCPNGYVYDKPVNVRYLDETETDGFSTTADGDAGGSGIDPAGRRPGKNNRCFSKKGVRTLLMNDLDSLDIT 1024
NTDB id 1090 CAA90909.1 1..3114( ) GCMQKSNEIVCPNGYVYDKPVNVRYLDEKKTDGFSTTADGDAGGSGIDPAGKRSGKNNRCFSQKGVRTLLMNDLDSLDIT 1021
consensus
<0
logo
NTDB id 109658 A9Y61 RS10560 WP 196211034.1 GPMCGIKRLSWREVFF. 1040
NTDB id 1090 CAA90909.1 1..3114( ) GPTCGMKRISWREVFY* 1037
consensus

X non conserved

X similar

X $\geq$ 50% conserved