```
logo

NTDB id 185247 A9Y61 RS10560 WP 196211034.1  MNKTLKRQVFRHTALYAAILMFSHTGGGGGGGQAQARDYAIIMNGRNQPEVKSHV.PSSIKDKDRKRKYTHHKYKTGGGS   79
NTDB id 1090 CAA90909.1 1..3114( )           MNKTLKRQVFRHTALYAAILMFSHTGGGG..AMAQTHKYAIIMNERNQLEVKGNGQYSTIKDKDRERKFIYNKDRGGGGS   78
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*** !! * !!!!!! !!!*!!! * **!*!!!!!! !!* **! * !!!!

logo

NTDB id 185247 A9Y61 RS10560 WP 196211034.1  VSFDNSDELVSQQSGTAVFGTATYLPPYGKVSGFDADALKERVNAAGWIRTTRIALAGYSYADVVCRSGTGCPKLVYKTR   159
NTDB id 1090 CAA90909.1 1..3114( )           VFFDNTDTLVSQQRGTAVFGTATYLPPYGKVSGFDADGLQKRNNAVDWIHTTQAGLAGYAYTDVICRSN.QCPQLVYETK   157
consensus                                    ! !!!*! !!!!! !!!!!!!!!!!!!!!!!!!!!!!*!  ! !!  !!*!!  *!!!! ! !!*!!! * !! !!! !*

logo

NTDB id 185247 A9Y61 RS10560 WP 196211034.1  FTFGGQGLKKKVGSKLDIYEDKSRENSPIYKLSDYPWLGVSFNLGSENTVKDGKSFNKLISSFSEDNNNQTIVSTTEDRP   239
NTDB id 1090 CAA90909.1 1..3114( )           FSFDGIGLAKNAGS.LDRHPDPSRENSPIYKLKDHPWLGVSFNLGSENTVKDGKSFNKLISSFSEGNNNQTIVSTTRGHS   236
consensus                                    !*!   !! !  !!*!! **!*!!!!!!!!!! !*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!!!!!!!  **

logo

NTDB id 185247 A9Y61 RS10560 WP 196211034.1  ISLGDPQREHTAVAYYLNAKLHLLDKKKIEDIAQGKTVRLGVLKPSIDVWQGNTGLVSLLGFHATWDIKDTGQIPVKLGL   319
NTDB id 1090 CAA90909.1 1..3114( )           ISLSDWKREHTAMAYYLNAKLHLLDKKGIEDIAQGKTVDLGTLRPRVEATVR...RGELLNFWATWKIEDKGNITVRLGL   313
consensus                                    !!! !* !!!!!*!!!!!!!!!!!!!! !!!!!!!!!! !! !*! **    ***   !! !*!!! ! ! !*!*!*!!!

logo

NTDB id 185247 A9Y61 RS10560 WP 196211034.1  PTVKAGRCINKPNPNPKSKAPSPALTAPALWFGPVQNGKVQMYSASVSTYPDSSSSKIFLQNLSRNDDKNKPGRYSLKPL   399
NTDB id 1090 CAA90909.1 1..3114( )           PEVKAGRCVNKANPNPNAKAPSPALTAPALWFGPVKDGKAEMYSASVSTYPDSSSSRIYLQNLKRKTDPGKPGRHSLETL   393
consensus                                    ! !!!!!!*!!*!!!!  !!!!!!!!!!!!!!!!  !!  !!!!!!!!!!!!!!!!*!*!!!! !  !* !!!!*!! *!

logo

NTDB id 185247 A9Y61 RS10560 WP 196211034.1  SENEIKSKEPSFMGRETIIRLDDGVHLIKLNGSKDEVAAFVNLNGNNTGKNDTFGIVKEANVNLEADEWKKVLLPWTVRG   479
NTDB id 1090 CAA90909.1 1..3114( )           TENDIKSREPNFTGRQTIIRLNGGVREIKLDRNNTEVVNFNG....NDGNNDTFGIVKDLGVEPDTSEWKKVLLPWTVRG   469
consensus                                    *!!*!!!*!! ! !! !!!!!  !!* !!!     !!  !  ****! ! !!!!!!!!*  ! **  !!!!!!!!!!!!!

logo

NTDB id 185247 A9Y61 RS10560 WP 196211034.1  PGNDNKFKSINQK.....PDKYSQRYRIRE..NGNRDLGDIVNSPIVAVGGYLATAANDGMVHIFKKNGGSDERSYNLKL   552
NTDB id 1090 CAA90909.1 1..3114( )           FADDNKFKAFNKEENNDNKPKYSQKYRSRDNNKGERNLGDIVNSPIVAVGEYLATSANDGMVHIFKQSGG.DKRSYNLKL   548
consensus                                    ** !!!!!  !  *******!!!!*!! !*** ! ! !!!!!!!!!!!!! !!!! !!!!!!!!!!  !!*! !!!!!!!
```

```
logo
NTDB id 185247 A9Y61 RS10560 WP 196211034.1  SYIPGTMPRQYFDNDTSALKGSTLAQELRTFAEKGYVGDRYGVDGGFVLRQVE.LRGQKHVFMFGAMGLGGRGAYALDLS   631
NTDB id 1090 CAA90909.1 1..3114( )           SYIPGTMPRKDIQNTE.....STLAKDVRTFAEKGYVGDRYGVDGGFVLRKVDNLNGQNRVFMFGAMGFGGRGAYALDLT   623
consensus                                    !!!!!!!!!     !  *****!!!! **!!!!!!!!!!!!!!!!!!!!!!  !**! !! *!!!!!!!! !!!!!!!!!!*

logo
NTDB id 185247 A9Y61 RS10560 WP 196211034.1  KIDGNYPAAAPLFDVKNGDNNGKNRVEVELGYTVGTPQIGKIRNGTYSAFLASGYAAKEID.DPTNKTALYVYDLKNT.L   709
NTDB id 1090 CAA90909.1 1..3114( )           KADGSDPTAVSLFDVKDNGNNGNNRV..ELGYTVGTPQIGKTHDGKYAAFLASGYATKEIITSGDNKTALYVYDLEGNGT   701
consensus                                    ! !!   ! ! *!!!!!    !!! !!!**!!!!!!!!!!!!!! * ! ! !!!!!!!! !!! * * !!!!!!!!!!   *

logo
NTDB id 185247 A9Y61 RS10560 WP 196211034.1  GTPIRKIDVKDGKGGLSSPTLVDKDLDGTVDIAYAGDRGGKMYRFDLSNSDPSKWSVSTIFEGAKPITSAPAVSRLADKR   789
NTDB id 1090 CAA90909.1 1..3114( )           NNLIKKIEVPGGKGGLSSPTLVDKDLDGTVDIAYAGDRGGNMYRFDLSSQDPQQWSVRTIFEGTKPITSAPAISQLKDKR   781
consensus                                      *!*!!*!* !!!!!!!!!!!!!!!!!! !!!!!!!!!!! !!!!!!!  !!   !!! !!!!! !!!!!!!!*! ! !!!

logo
NTDB id 185247 A9Y61 RS10560 WP 196211034.1  VVIFGTGSDLSEEDVLNTDEQYIYGIFDDDEGTVKVTVQNGTGGGLLEQVLSEEN..KTLFL..NKRSDGSGSKGWAVKL   865
NTDB id 1090 CAA90909.1 1..3114( )           VVIFGTGSDLSEEDVDNMEEQYIYGIFDDDTATTGTVNFSDSGGGLLEQVLRRDNDNKTLFLTDYKRSDGSGNKGWVVKL   861
consensus                                    !!!!!!!!!!!!*!! ! *!!!!!!!!!!! *!        *!!!!!!!!!  *!**!!!!!** !!!!!!! !!! !!!

logo
NTDB id 185247 A9Y61 RS10560 WP 196211034.1  TGGQRVTVKPIVVLRTAFVTIRKYKD.GGCGAETAILGINTADGGALTPRSARPIVPEANKDVAQYSGHKKTAGGKSVPI   944
NTDB id 1090 CAA90909.1 1..3114( )           KDGQRVTVKPTVVLRTAFVTIHKYTGTDKCGAETAILGINTADGGKLTKKSARPIVPEANTAVAQYSGHKKGTNGKSIPI   941
consensus                                     !!!!!!!! !!!!!!!!!!*!!   *  !!!!!!!!!!!!!!!! !!**!!!!!!!!!!  !!!!!!!!!    !!!*!!

logo
NTDB id 185247 A9Y61 RS10560 WP 196211034.1  GCMEKGGKTVCPNGYVYDKPVNVRYLDETETDGFSTTADGDAGGSGIDPAGRRPGKNNRCFSKKGVRTLLMNDLDSLDIT  1024
NTDB id 1090 CAA90909.1 1..3114( )           GCMQKSNEIVCPNGYVYDKPVNVRYLDEKKTDGFSTTADGDAGGSGIDPAGKRSGKNNRCFSQKGVRTLLMNDLDSLDIT  1021
consensus                                    !!!  !    !!!!!!!!!!!!!!!!!!!  !!!!!!!!!!!!!!!!!!!!!!!!*!*!!!!!!!! !!!!!!!!!!!!!!!!!

   <0
logo
NTDB id 185247 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