```
logo

NTDB id 1108434 ACN079 RS24795 WP 420232252.1  MIAEASSPREKQAQRLLRLYHLYRLSIGITLVLLISSKLDNRLLEFANDDLLRSGSWLYLVLNILLVVFLENTRRPARLF   80
NTDB id 1472 PAKAF RS23995 WP 016253893.1      MRAERLRLSEEQGQRILRLYHLYRLTIGLVLVLLISSELEDQVLKLVHPELFHVGSWCYLVFNILVALFLPPSRQLLPIF   80
consensus                                      ! !!   * ! !*!!*!!!!!!!!!*!!* !!!!!!! !*  *!   ***! * !!!*!!! !!!* *!!***! * **!

logo

NTDB id 1108434 ACN079 RS24795 WP 420232252.1  GLALTDVLLLSWLFFAAGGVPSAIGNLLIVSVAIGNTLLRGRVGLLIAAVATIGIVGSTFLLGLSDSNRPSSYLQAGTLG  160
NTDB id 1472 PAKAF RS23995 WP 016253893.1      ILALTDVLMLCGLFYAGGGVPSGIGSLLVVAVAIANILLRGRIGLVIAAAASLGLLYLTFFLSLSSPDATNHYVQAGGLG  160
consensus                                       !!!!!!!*!* !!*!*!!!!!*!! !!*! !!!*! !!!!!*!!*!!! !**!**  !! ! !! *  * *!*!!! !!

logo

NTDB id 1108434 ACN079 RS24795 WP 420232252.1  ALCFAAALLVQGLTRRLEASETLAEQRASEVTGLEALNALILQRMRTGILVLDRERRVQLANESALNLLGMHDLVGQRID  240
NTDB id 1472 PAKAF RS23995 WP 016253893.1      TLCFAAALVIQALVRRQEQTETLAEERAETVANLEELNALILQRMRTGILVVDSRQAILLANQAALGLLRQDDVQGASLG  240
consensus                                       !!!!!!!**!*! !! ! *!!!!! !!  !  !! !!!!!!!!!!!!!!!*!    * !!!  !! !!  *!* !  *

logo

NTDB id 1108434 ACN079 RS24795 WP 420232252.1  DYCTALVERLQLWLNNPSLRPPSLTVTGTGLTLQPSFIALGHDDQQQFLVFLEDLAQVAQQAQQLKLASLGRLTAGIAHE  320
NTDB id 1472 PAKAF RS23995 WP 016253893.1      RHSPMLMHCMKQWRLNPSLRPPTLKVVPDGPTVQPSFISLNREDDQHVLIFLEDISQIAQQAQQMKLAGLGRLTAGIAHE  320
consensus                                       *** !**** !  !!!!!!!*! ! * !*!*!!!!! ! **! !* !*!!!!* !*!!!!!!*!!! !!!!!!!!!!!

logo

NTDB id 1108434 ACN079 RS24795 WP 420232252.1  IRNPLGAISHAAQLLRESEELNNADRRLTQIIQDHSQRMNRVIENVLQLSRRQQTTPQRLDLRAWLDQFVRQARESIAEH  400
NTDB id 1472 PAKAF RS23995 WP 016253893.1      IRNPLGAISHAAQLLQESEELDAPDRRLTQIIQDQSKRMNLVIENVLQLSRRRQAEPQQLDLKEWLQRFVDEYPGRLRND  400
consensus                                      !!!!!!!!!!!!!!! !!!!!  *!!!!!!!!!!*! !!! !!!!!!!!!!! !  !! !!!* !!  !!   *  *  *

logo

NTDB id 1108434 ACN079 RS24795 WP 420232252.1  QHLHLSIDPGDYTTLMDPDQLTQVLDNLLRNAWRHSAMAHEQTEAWLKLFIDPHSQLSTLDIIDNGPGVTPEQQAHLFEP  480
NTDB id 1472 PAKAF RS23995 WP 016253893.1      SELHLQLGAGDIQTRMDPHQLNQVLSNLVQNGLRYSAQAHGRGQVWLSLARDPESDLPVLEIIDDGPGVPADKLNNLFEP  480
consensus                                       *!!! * *!!  ! !!!*!! !!! !!* !* !*!! !!     !! !  !!*! !* !*!!! !!!!***   *!!!!

logo

NTDB id 1108434 ACN079 RS24795 WP 420232252.1  FFTTSSQGTGLGLYLSRELCESNQARLDFKPR.QGGGCFRITFAHGRKQI   529
NTDB id 1472 PAKAF RS23995 WP 016253893.1      FFTTESKGTGLGLYLSRELCESNQARIDYRNREEGGGCFRITFAHPRKLS   530
consensus                                      !!!! ! !!!!!!!!!!!!!!!!!!!!*!***!* !!!!!!!!!!!!*!!
```

X non conserved
X similar
X $\geq$50% conserved