```
logo

NTDB id 1045 HON27 RS16330 WP 168727019.1     MAEQQPLVLLVDDEEDLCLLMQMTLARMGIKTHLAYRVEQAKQLFTQFHYDACLTDLNLPDGSGLDLVKHVSQNYPNTPI    80
NTDB id 321627 EAO82 RS17670 WP 096345108.1  ..MNSLTVLIIDDEPDIVELLEMTLQRMQVRTCSAATMSQALDKLGKQRFDLCLTDMRLPDGDGLTIVRHIQQHYPQTPV    78
NTDB id 1473 PAKAF RS24000 WP 003094694.1    ..MSRQKALIVDDEPDIRELLEITLGRMKLDTRSARNVKEARELLAREPFDLCLTDMRLPDGSGLDLVQYIQQRHPQTPV    78
consensus                                      **   *!**!!!*!* *!***!!*!! **! *!  * *!******  *!*!!!!**!!!!*!!**!****! *!*!!*

logo

NTDB id 1045 HON27 RS16330 WP 168727019.1     AVLTAYGNMDIAIAALKAGAFDFVSKPVNQVHLDQLLQKALNRQKVEHDTT.ENALENKLLIGRSLPIQQLRIAIKKIAR   159
NTDB id 321627 EAO82 RS17670 WP 096345108.1  AMITAYGSLDTAISALKAGAFDFLTKPVNLQRLRELVSNALRLSLSNPEQNNVTEDEADPILGISPPIIQLRSQIAKLAR   158
NTDB id 1473 PAKAF RS24000 WP 003094694.1    AMITAYGSLDTAIQALKAGAFDFLTKPVDLGRLRELVATALRLRNPEAEEAP....VDNRLLGESPPMRALRNQIGKLAR   154
consensus                                    !**!!!!**!*!! !!!!!!!!!**!!!** *!**!*  !!**   * *       *   **! !*!* *!! *!*!*!!

logo

NTDB id 1045 HON27 RS16330 WP 168727019.1     SQAPVFVTGESGTGKEVVANLVHRLSNRSEGPFIAINCGAIPTELMESELFGHKKGSFTGATQDKQGLILSAHGGSLFLD   239
NTDB id 321627 EAO82 RS17670 WP 096345108.1  SQAPLYISGESGSGKELVARRIHALGARAEQPFVPVNCGAIPSELMESEFFGHKRGSFTGAIADKPGLFQAASGGTLFLD   238
NTDB id 1473 PAKAF RS24000 WP 003094694.1    SQAPVYISGESGSGKELVARLIHEQGPRIERPFVPVNCGAIPSELMESEFFGHKKGSFTGAIEDKQGLFQAASGGTLFLD   234
consensus                                    !!!!****!!!!*!!!*!!***! ** ! ! !!***!!!!!!*!!!!!!*!!!!*!!!!!!* !!*!!***!*!!*!!!!

logo

NTDB id 1045 HON27 RS16330 WP 168727019.1     EIAELPLSMQVKLLRAVQEKKIRPVGSDQEIDVDFRVISASHQDLDLLVRQGKFRQDLFFRIHVMDLILPPLRERGEDVL   319
NTDB id 321627 EAO82 RS17670 WP 096345108.1  EVADLPMAMQVKLLRAIQEKAVRPLGTQQEEAVDIRLLCATHKDLAAEVAAGRFRQDLFYRINVIELRVPPLRERREDIP   318
NTDB id 1473 PAKAF RS24000 WP 003094694.1    EVADLPMAMQVKLLRAIQEKAVRAVGGQQEVAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVPPLRERREDIP   314
consensus                                    !*!*!!**!!!!!!!!!*!!!**!**!**!!*!!*!***!*!*!!***!**!*!!!!!**!**!**!**!!!!!!*!!**

logo

NTDB id 1045 HON27 RS16330 WP 168727019.1     LLANHFIQKICMEWETPPKQLTEAAETYLLQQHFPGNVRELRNMIERAITLSEDATIDISHLHPAPLRANISNPFASAAQ   399
NTDB id 321627 EAO82 RS17670 WP 096345108.1  LLTRHILARLAVRNEMPGSTVSPETLERLSNYRFPGNVRELENILERAFTLSEGQLIKTHDIHIASCAS.SQ........   389
NTDB id 1473 PAKAF RS24000 WP 003094694.1    LLAERILKRLAGDTGLPAARLTGDAQEKLKNYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADAPGASQ........   386
consensus                                    !!* *** ***** **!*  ** ** **! ***!!!!!!!!!*!**!!!*!!*!*  !  *****!   * **

logo

NTDB id 1045 HON27 RS16330 WP 168727019.1     SIQTTVAAPQAVKKLPSEGLERYLENIEKDILLNALNMTHWNRTLAAKKLGMTFRSLRYRLKKFGLDTETEQEV   473
NTDB id 321627 EAO82 RS17670 WP 096345108.1  ........NQQPSLTQIDSLEDYLDNIERTAITQALEETRWNKTAAAKRLGLTFRSLRYRLKKLGMED......   449
NTDB id 1473 PAKAF RS24000 WP 003094694.1    ........EGAASLSEIDNLEDYLEDIERKLIMQALEETRWNRTAAAQRLGLTFRSMRYRLKKLGID.......   445
consensus                                            ** *** ** !!*!!**!!* ***!!**!*!!*!*!!**!!*!!!!*!!!!!!*!**
```

X non conserved

X similar

X ≥ 50% conserved