```
logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1     .........MVEDTASVAALYRSYLTPLDIDINIVGTGRDAIESIGRREPDLILLDLRLPDMTGMDVLYAVKEKSPDVPI   71
NTDB id 1069183 ACFELC RS24610 WP 400564483.1  ..MSRQKALIVDDEPDIRELLEITLGRMKLDTRSARNVKEARELLAREPFDLCLTDMRLPDGSGLDLVQYIQQRHPQTPV   78
NTDB id 1473 PAKAF RS24000 WP 003094694.1      ..MSRQKALIVDDEPDIRELLEITLGRMKLDTRSARNVKEARELLAREPFDLCLTDMRLPDGSGLDLVQYIQQRHPQTPV   78
NTDB id 1045 HON27 RS16330 WP 168727019.1      MAEQQPLVLLVDDEEDLCLLMQMTLARMGIKTHLAYRVEQAKQLFTQFHYDACLTDLNLPDGSGLDLVKHVSQNYPNTPI   80
consensus                                        ********!*!******!****!**************!*********!**!*!**!!!**!*!*********!**!*

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1     VFMTAHGSIDTAVEAMRHGAQDFLIKPCEADRLRVTVNNAIRKASKLKNDVDNKNQNYQGFIGSSQTMQAVYRTIDSAAS  151
NTDB id 1069183 ACFELC RS24610 WP 400564483.1  AMITAYGSLDTAIQALKAGAFDFLTKPVDLGRLRELVATALRLRNP...E.AEEAPVDNRLLGESPPMRALRNQIGKLAR  154
NTDB id 1473 PAKAF RS24000 WP 003094694.1      AMITAYGSLDTAIQALKAGAFDFLTKPVDLGRLRELVATALRLRNP...E.AEEAPVDNRLLGESPPMRALRNQIGKLAR  154
NTDB id 1045 HON27 RS16330 WP 168727019.1      AVLTAYGNMDIAIAALKAGAFDFVSKPVNQVHLDQLLQKALNRQKVEHDT.TENALENKLLIGRSLPIQQLRIAIKKIAR  159
consensus                                      ***!!*!**!*!**!***!!*!!**!!*****!******!******   * ***********!*!*** *****!***!*

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1     SKASIFITGESGTGKEVCAEAIHAASKRGDKPFIAINCAAIPKDLIESELFGHVKGAFTGAATERQGAAEAADGGTLFLD  231
NTDB id 1069183 ACFELC RS24610 WP 400564483.1  SQAPVYISGESGSGKELVARLIHEQGPRIERPFVPVNCGAIPSELMESEFFGHKKGSFTGAIEDKQGLFQAASGGTLFLD  234
NTDB id 1473 PAKAF RS24000 WP 003094694.1      SQAPVYISGESGSGKELVARLIHEQGPRIERPFVPVNCGAIPSELMESEFFGHKKGSFTGAIEDKQGLFQAASGGTLFLD  234
NTDB id 1045 HON27 RS16330 WP 168727019.1      SQAPVFVTGESGTGKEVVANLVHRLSNRSEGPFIAINCGAIPTELMESELFGHKKGSFTGATQDKQGLILSAHGGSLFLD  239
consensus                                      !*!*****!!!!*!!!**!***!** *!***!!***!!*!!!**!*!!! !!!*!!*!!!!****!!****!*!!*!!!!

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1     ELCEMDLDLQTKLLRFIQTGTFQKVGSSKMKSVDVRFVCATNRDPWKEVQEGRFREDLYYRLYVIPLHLPPLRARGDDVI  311
NTDB id 1069183 ACFELC RS24610 WP 400564483.1  EVADLPMAMQVKLLRAIQEKAVRAVGGQQEVAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVPPLRERREDIP  314
NTDB id 1473 PAKAF RS24000 WP 003094694.1      EVADLPMAMQVKLLRAIQEKAVRAVGGQQEVAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVPPLRERREDIP  314
NTDB id 1045 HON27 RS16330 WP 168727019.1      EIAELPLSMQVKLLRAVQEKKIRPVGSDQEIDVDFRVISASHQDLDLLVRQGKFRQDLFFRIHVMDLILPPLRERGEDVL  319
consensus                                      !********!*!!!!**!******!! *****!!*!***!***!****!**!*!!*!!**!**!**!!!!*! *!**

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1     EIAYSLLGFMSKEEGKDFVRLSAEVVERFRQYEWPGNVRQLQNVLRNVVVLNEGREITLDMLPPPLN..QMSAPINRALP  389
NTDB id 1069183 ACFELC RS24610 WP 400564483.1  LLAERILKRLAGDTGLPAARLTGDAQEKLKNYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADSPGA......S...  385
NTDB id 1473 PAKAF RS24000 WP 003094694.1      LLAERILKRLAGDTGLPAARLTGDAQEKLKNYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADAPGA......S...  385
NTDB id 1045 HON27 RS16330 WP 168727019.1      LLANHFIQKICMEWETPPKQLTEAAETYLLQQHFPGNVRELRNMIERAITLSEDATIDISHLHPAPLRANISNPFASAAQ  399
consensus                                      **!****************!************!!!!!*!*!******!*!***!****!**** ***** *   **

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1     .....LAHENKVSVHEIFPLWMTEKQAIEQAIEACDGNIPRAATYLDVSPSTIYRKLQTWNEKVKEKEKER.........  455
NTDB id 1069183 ACFELC RS24610 WP 400564483.1  .......QEGAASLS........EIDNLEDYLEDIERKLI...........MQALEETRWNRTAAAQRLGLTFRSMRYRL  439
NTDB id 1473 PAKAF RS24000 WP 003094694.1      .......QEGAASLS........EIDNLEDYLEDIERKLI...........MQALEETRWNRTAAAQRLGLTFRSMRYRL  439
NTDB id 1045 HON27 RS16330 WP 168727019.1      SIQTTVAAPQAVKKL........PSEGLERYLENIEKDIL...........LNALNMIHWNRTLAAKKLGMTFRSLRYRL  460
consensus                                          ****** ***         *****!***!*******            ********!!***** *************
```

```
logo                                          KKLGLDTETEQEV

NTDB id 1157 A1552VC RS03895 WP 001888250.1   .............   455
NTDB id 1069183 ACFELC RS24610 WP 400564483.1 KKLGID.......   445
NTDB id 1473 PAKAF RS24000 WP 003094694.1     KKLGID.......   445
NTDB id 1045 HON27 RS16330 WP 168727019.1     KKFGLDTETEQEV   473
consensus                                     ******
```

X non conserved

X similar

X $\geq$ 50% conserved