```
logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1  .........MVEDTASVAALYRSYLTPLDIDINIVGTGRDAIESIGRREPDLILLDLRLPDMTGMDVLYAVKEKSPDVPI   71
NTDB id 1045 HON27 RS16330 WP 168727019.1    MAEQQPLVLLVDDEEDLCLLMQMTLARMGIKTHLAYRVEQAKQLFTQFHYDACLTDLNLPDGSGLDLVKHVSQNYPNTPI   80
NTDB id 87666 MIN45 RS01440 WP 286292901.1  ..MTQSTALVVDDEPDILELLELTLARMNVQARCAATLEEAKTWLERESFQLCLTDMRLPDGDGIDLVAYIQERFPDLPV   78
NTDB id 1473 PAKAF RS24000 WP 003094694.1   ..MSRQKALIVDDEPDIRELLEITLGRMKLDTRSARNVKEARELLAREPFDLCLTDMRLPDGSGLDLVQYIQQRHPQTPV   78
consensus                                     ***  ***!*!**** *!****!*** ************!******* ****!*!**!!!**!*!** *** **!**!*

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1  VFMTAHGSIDTAVEAMRHGAQDFLIKPCEADRLRVTVNNAIRKASKLKNDVDNKNQNYQGFIGSSQTMQAVYRTIDSAAS  151
NTDB id 1045 HON27 RS16330 WP 168727019.1    AVLTAYGNMDIAIAALKAGAFDFVSKPVNQVHLDQLLQKALNRQKVEHDT.TENALENKLLIGRSLPIQQLRIAIKKIAR  159
NTDB id 87666 MIN45 RS01440 WP 286292901.1  AVITAHGNMEAAVRALKCGAFDFVSKPVDLQILRKLVGSAIQLTDAP....KD.RRSRDLLLGNSAPMRDIRGKIARLAR  153
NTDB id 1473 PAKAF RS24000 WP 003094694.1   AMITAYGSLDTAIQALKAGAFDFLTKPVDLGRLRELVATALRLRNPE....AEEAPVDNRLLGESPPMRALRNQIGKLAR  154
consensus                                   ***!!*! ***!* !***!!*!!**!!*** *!* ** *!***   *     * *   ****! ! ** ***  !***!*

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1  SKASIFITGESGTGKEVCAEAIHAASKRGDKPFIAINCAAIPKDLIESELFGHVKGAFTGAATERQGAAEAADGGTLFLD  231
NTDB id 1045 HON27 RS16330 WP 168727019.1    SQAPVFVTGESGTGKEVVANLVHRLSNRSEGPFIAINCGAIPTELMESELFGHKKGSFTGATQDKQGLILSAHGGSLFLD  239
NTDB id 87666 MIN45 RS01440 WP 286292901.1  TQAPVFIHGESGTGKELVARLIHAKSPRADKPFVAVNCGAIPAELMESEFFGHRKGSFSGAVADHLGLFQAADGGTLFLD  233
NTDB id 1473 PAKAF RS24000 WP 003094694.1   SQAPVYISGESGSGKELVARLIHEQGPRIERPFVPVNCGAIPSELMESEFFGHKKGSFTGAIEDKQGLFQAASGGTLFLD  234
consensus                                   **!*****!!!!*!!!**!***!* **!***!!***!!*!!!**!*!!! !!!*!!*!*!!* ***!****!*!!*!!!!

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1  ELCEMDLDLQTKLLRFIQTGTFQKVGSSKMKSVDVRFVCATNRDPWKEVQEGRFREDLYYRLYVIPLHLPPLRARGDDVI  311
NTDB id 1045 HON27 RS16330 WP 168727019.1    EIAELPLSMQVKLLRAVQEKKIRPVGSDQEIDVDFRVISASHQDLDLLVRQGKFRQDLFFRIHVMDLILPPLRERGEDVL  319
NTDB id 87666 MIN45 RS01440 WP 286292901.1  EVADLPLHLQVKLLRAIQEKRVRPVGGHEEIAVDVRILSAIHKNLKALVDEGRFRQDLYYRINVIELTVPPLRQRREDIP  313
NTDB id 1473 PAKAF RS24000 WP 003094694.1   EVADLPMAMQVKLLRAIQEKAVRAVGGQQEVAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVPPLRERREDIP  314
consensus                                   !****** *!*!!!!**!*****!!  ****!!*!***!***** * ! *!*!!*!!**!**!**! *!!!!*! *!**

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1  EIAYSLLGFMSKEEGKDFVRLSAEVVERFRQYEWPGNVRQLQNVLRNVVVLNEGREITLDMLPPPL..NQMSAPINRALP  389
NTDB id 1045 HON27 RS16330 WP 168727019.1    LLANHFIQKICMEWETPPKQLTEAAETYLLQQHFPGNVRELRNMIERAITLSEDATIDISHLHPAPLRANISNPFASAAQ  399
NTDB id 87666 MIN45 RS01440 WP 286292901.1  LLADRILTHIAHVNGLPPLMLTERALEALCRYDFPGNVRELENILERAAALCEGEILDADDLHLPPPSAPVSGISPKDAP  393
NTDB id 1473 PAKAF RS24000 WP 003094694.1   LLAERILKRLAGDTGLPAARLTGDAQEKLKNYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADAPG....ASQEGAA  390
consensus                                   **!**** *** * ******!*************!!!!!*!*!*******!*! * *****!****  ***********

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1  LAHENKV.....SVHEIFP....LWMTEKQAIEQAIEACDGNIPRAATYLDVSPSTIYRKLQTWNEKVKEKEKER  455
NTDB id 1045 HON27 RS16330 WP 168727019.1    SIQTTVAAPQAVKKLPSEGLERYLENIEKDILLNALNMTHWNRTLAAKKLGMTFRSLRYRLKKFGLDTETEQEV.  473
NTDB id 87666 MIN45 RS01440 WP 286292901.1  P...........LPEGPFSLEDYLGEIERRAILDALTQTRWNRSKAARRLGMTLRQLKYRLQKWGLDGGED....  453
NTDB id 1473 PAKAF RS24000 WP 003094694.1   S............LSEIDNLEDYLEDIERKLIMQALEETRWNRTAAAQRLGLTFRSMRYRLKKLGID........  445
consensus                                   *             * *** ****!***!******!** ***!***!!**!**********! *****   **
```

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