```
logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1   .........MVEDTASVAALYRSYLTPLDIDINIVGTGRDAIESIGRREPDLILLDLRLPDMTGMDVLYAVKEKSPDVPI   71
NTDB id 1045 HON27 RS16330 WP 168727019.1     MAEQQPLVLLVDDEEDLCLLMQMTLARMGIKTHLAYRVEQAKQLFTQFHYDACLTDLNLPDGSGLDLVKHVSQNYPNTPI   80
NTDB id 111342 BN1079 RS08475 WP 037023667.1 .MTARQKALIIDDEPDIRELLEITLGRMKLDTRSARNLKEARECLAREQYDLCLTDMRLPDGCGLELVQHIQQQYPQLPV   79
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     AVLTAYGNMDIAIAALKAGAFDFVSKPVNQVHLDQLLQKALNRQKVEHD.TTENALENKLLIGRSLPIQQLRIAIKKIAR   159
NTDB id 111342 BN1079 RS08475 WP 037023667.1 AMITAYGSLDTAIGALKAGAFDFLTKPVDLSRLRELVNTALRLRSP....SPNDLSADNRLLGNSPPMNLLRKQIAKLAR   155
NTDB id 1473 PAKAF RS24000 WP 003094694.1    AMITAYGSLDTAIQALKAGAFDFLTKPVDLGRLRELVATALRLRNP....EAEEAPVDNRLLGESPPMRALRNQIGKLAR   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 111342 BN1079 RS08475 WP 037023667.1 SQAPVYISGESGSGKELVARLIHEQGPRHDRPFIPVNCGAIPSELMESEFFGHKKGSFTGAIEDKPGLFQEANGGTLFLD   235
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 111342 BN1079 RS08475 WP 037023667.1 EVADLPLTMQVKLLRAIQEKAVRTVGGAKEVVVDVRVLCATHKDLAAEVAAGRFRQDLYYRLNVIELRVPPLREFREDVA   315
NTDB id 1473 PAKAF RS24000 WP 003094694.1    EVADLPMAMQVKLLRAIQEKAVRAVGGQQEVAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVPPLREFREDIP   314
consensus                                    !*******!*!!!!**!***** !!    ** !!*!***!***!****!**!*!!*!!**!**!**!**!!!!*! *!**

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1   EIAYSLLGFMSKEEGKDFVRLSAEVVERFRQYEWPGNVRQLQNVLRNVVVLNEGREITLDMLPPPLNQ..MSAPINRALP   389
NTDB id 1045 HON27 RS16330 WP 168727019.1     LLANHFIQKICMEWETPPKQLTEAAETYLLQQHFPGNVRELRNMIERAITLSEDATIDISHLHPAPLRANISNPFASAAQ   399
NTDB id 111342 BN1079 RS08475 WP 037023667.1 LLAETLLRRLADECGDRPARLHPDALAKLQSYRFPGNVRELENMLERAYTLCEGDEIKAGDLRLSDANGAGETP......   389
NTDB id 1473 PAKAF RS24000 WP 003094694.1    LLAERILKRLAGDTGLPAARLTGDAQEKLKNYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADAPGASQEG......   388
consensus                                    **!******** * * ****!*************!!!!!*!*!*******!*! **! * *!**********  *    *

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1   L.....AHENKVSVHEI..FP..LWMTEKQAIEQAIEACDGNIPRAATYLDVSPSTIYRKLQTWNEKVKEKEKER   455
NTDB id 1045 HON27 RS16330 WP 168727019.1     SIQTTVAAPQAVKKLPSEGLERYLENIEKDILLNALNMTHWNRTLAAKKLGMTFRSLRYRLKKFGLDTETE.QEV   473
NTDB id 111342 BN1079 RS08475 WP 037023667.1 ..........EASLAQIDNLEDHLEEVERQLIMQALEETRWNRTAAAQRLGLTFRSMRYRLKKLGLD........   446
NTDB id 1473 PAKAF RS24000 WP 003094694.1    ..........AASLSEIDNLEDYLEDIERKLIMQALEETRWNRTAAAQRLGLTFRSMRYRLKKLGID........   445
consensus                                        *  ** ** ********!***!******!******!***!!**!**********!******      *
```

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