```
logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1   .........MVEDTASVAALYRSYLTPLDIDINIVGTGRDAIESIGRREPDLILLDLRLPDMTGMDVLYAVKEKSPDVPI   71
NTDB id 1045 HON27 RS16330 WP 168727019.1     MAEQQPLVLLVDDEEDLCLLMQMTLARMGIKTHLAYRVEQAKQLFTQFHYDACLTDLNLPDGSGLDLVKHVSQNYPNTPI   80
NTDB id 1034591 ABK105 RS16095 WP 005410795.1 .MNETRSALVVDDERDIRELLVLTLGRMGLRISTAANLAEARELLASNPYDLCITDMRLPDGNGIELVSEIAQHYPRTPV   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     AVLTAYGNMDIAIAALKAGAFDFVSKPVNQVHLDQLLQKALNRQKVEHDT.TENALENKLLIGRSLPIQQLRIAIKKIAR   159
NTDB id 1034591 ABK105 RS16095 WP 005410795.1 AMITAFGSMDLAVEALKAGAFDFVSKPVDISVLRGLVKHALELNNAERPAPGPNAEQGGRLLGHSQAMDVLRTTIGKVAR   159
NTDB id 1473 PAKAF RS24000 WP 003094694.1    AMITAYGSLDTAIQALKAGAFDFLTKPVDLGRLRELVATALRLRNPEAE....EAPVDNRLLGESPPMRALRNQIGKLAR   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 1034591 ABK105 RS16095 WP 005410795.1 SQAPVYILGESGVGKELVARTIHAQGARAAGPFVPVNCGAIPGELMESEFFGHRKGSFSGAHADKPGLFQAAHGGTLFLD   239
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 1034591 ABK105 RS16095 WP 005410795.1 EVAELPLQMQVKLLRAIQEKSVRAVGAANEEPVDVRILSATHKDLAELVEDGRFRHDLYYRINVIELKVPPLRERRQDLP   319
NTDB id 1473 PAKAF RS24000 WP 003094694.1    EVADLPMAMQVKLLRAIQEKAVRAVGGQQEVAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVPPLRERREDIP   314
consensus                                     !****** *!*!!!!**!******!!* *** !!*!***!***!**  ! *!*!!*!!**!**!**!*!!!!*! *!**

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1   EIAYSLLGFMSKEEGKDFVRLSAEVVERFRQYEWPGNVRQLQNVLRNVVVLNEGREITLDMLPPPLNQMSAP..INRAL.   388
NTDB id 1045 HON27 RS16330 WP 168727019.1     LLANHFIQKICMEWETPPKQLTEAAETYLLQQHFPGNVRELRNMIERAITLSEDATIDISHLHPAPLRANISNPFASAAQ   399
NTDB id 1034591 ABK105 RS16095 WP 005410795.1 ELAAAVLARLARSHGRATPLLAPSALEALAQYAFPGNVRELENILERALALAEEDCIGADDLRLPQHAPRAP........   391
NTDB id 1473 PAKAF RS24000 WP 003094694.1    LLAERILKRLAGDTGLPAARLTGDAQEKLKNYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADAPGASQ........   386
consensus                                      *!   ******* ***   *!*********** *!!!!!*!*!******! !** ! ***!***    * **      *

logo
NTDB id 1157 A1552VC RS03895 WP 001888250.1   ........PLAHENKVSVHEIFPLWM..TEKQAIEQAIEACDGNIPRAATYLDVSPSTIYRKLQTWNEKVKEKEKER   455
NTDB id 1045 HON27 RS16330 WP 168727019.1     SIQTIVAAPQAV..KKLPSEGLERYLENIEKDILLNALNMTHWNRTLAAKKLGMTFRSLRYRLKKFGLDTETEQEV.   473
NTDB id 1034591 ABK105 RS16095 WP 005410795.1 ...GSAAPAEAVADLQPGSAALPSYIEQLERSAIQRALEENRWNKTRTAAQLGITFRALRYKLKKLGME........   457
NTDB id 1473 PAKAF RS24000 WP 003094694.1    ...EGAAS.......LSEIDNLEDYLEDIERKLIMQALEETRWNRTAAAQRLGLTFRSMRYRLKKLGID........   445
consensus                                        *** * **   *** ***** *****!* ****!******!****!  *!**********!******
```

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