```
logo
NTDB id 1426 RS RS05575 WP 011001070.1   MRALLIGFVAGCMALQTRPALAPVWQPALLGLACLLAMALLRRGARLPRLVPVMAVLAAACAGFGWSDWRAQQRLSVVLAPAWEG   85
NTDB id 59150 L483 RS06940 WP 016485474.1 MRTGMFALALGLLCPGLFP........ALPSVGWLITLAACAAVSVFTRV....WPLGCFVLGLCWACWSAQQALDDRLAAGLDG   73
NTDB id 1199 PSJM300 12650 AFN78592.1    MRAGMLALAAGLLLLRFLP........QLPSFGWLLALAPVGLLLLPFRW....RPLAFFLFGLVWACLNAQWALDDRLPVDLDG   73
consensus                                !!*********!** *   !        *!******!***! ** * *  !*     *!* ** !* !*** !!**!***!* ***!

logo
NTDB id 1426 RS RS05575 WP 011001070.1   KDIRATGVVAELPEVTEDATRFLFRIESSDAGDAVPPRVRLSWYGLRSWHERQREAEAATDRRAGIPDLQPGQRWQLTLRLKRPH   170
NTDB id 59150 L483 RS06940 WP 016485474.1 RTLWLEGRVVGLPARTAQGVRFELEAARS.RRAELPQRLQLSWFD....................GPPLRAGEQWRLAVTLQRPA   137
NTDB id 1199 PSJM300 12650 AFN78592.1    RTFWLEGQVTGLPDRRGDVVRFELEDIHS.RHAGLPSRIRLAWYG....................GPEIRSGERWRLAARLKRPS   137
consensus                                ******! ! *!!*******!!***   ! * ***! !**!*!**                      *!*** !**!*!***!*!!

logo
NTDB id 1426 RS RS05575 WP 011001070.1   SLMNPGGFDGEYAMLADDVRAAGYVYTGKRARNALMGEADAGSGVGLRVERWRAAVRRHLLAALPEARYAPVIVALVVGDQSGIA   255
NTDB id 59150 L483 RS06940 WP 016485474.1 GLLNPHGPDREAQLLARRVGATGTVKAGQLLA..P............VSGGWRDALRQRLLVVQANGR.QAALVALVLGDGAGLA   207
NTDB id 1199 PSJM300 12650 AFN78592.1    GMVNPSAFDYEAWLLARRIGATGTIKAGERIAEAA............SSGAWRDRLRQRLLTVEAHGR.AGAIAALVVGDGSGLS   209
consensus                                ***!! **! !* *!!****!*!****! *** *              ***!!***!**!! * * *! *****!!!*!!**!**

logo
NTDB id 1426 RS RS05575 WP 011001070.1   QADWERFRRTGISHLVSISGLHITMIAGLFGALWMALWRRSFGLARWLRTPLPLRMPAQRAGAVAAMAAAFAYCLLAGMGVPAQR   340
NTDB id 59150 L483 RS06940 WP 016485474.1 REDWQTLQATGTVHLLVISGQHIGLVAGLLYGLV.......AGLARWGLW..PARLPWLPCACALAMAAALAYGWLAGAGVPVQR   283
NTDB id 1199 PSJM300 12650 AFN78592.1    TADWRVLQDTGTVHLMVISGQHVGMLAGLLYAVV.......LLLARWGIW..PQRLPWLPWACGLAFAGALGYGWLAGFEVPVRR   285
consensus                                *!!   ** !!**!!*!!!*!****!!!*****        *!!!!***   ! !*!*** ****!*!*!**!**!!! *!!**!

logo
NTDB id 1426 RS RS05575 WP 011001070.1   TLLMLATVAVARLADRSVPVSLSLCWAAALVALVDPWAVMSAGGWLSFGAVAVIFLAARIVAADARDDVRRPAWPVRAWRGLRGA   425
NTDB id 59150 L483 RS06940 WP 016485474.1 ACLMLAVVLLWRLRFRHLGAMLPLLLALVAVLLVEPLAALLPGFWLSFAAVATLIYCFSGR..............LGGWRPWQAW   354
NTDB id 1199 PSJM300 12650 AFN78592.1    ACLMVAIVLLWRLRFRHLGVWLPLLIALVGVLMVDPLASLQPGFWLSFVAVALLIWIFRGR..............LGVPSWWRAL   356
consensus                                **!!*!*!***!!**!**** !*!**!**!**!*!*! * *!*!!!!*!!!**** ****              ***** ***

logo
NTDB id 1426 RS RS05575 WP 011001070.1   ARVQLAVTFGLLPLTLLLFQQVSVVSAVANALAIPVVSFVTTPLALMGTA.LPEPWSQPVLIWAEASFAWLMPWLDALALPGGSV   509
NTDB id 59150 L483 RS06940 WP 016485474.1 TRAQWVIAIGLLPVLLATGLPVSLSAPLANLVAVPWVSLAVLPLALLGTLLLPLGGVGEALLWLAGGLLDGLFRLLALVAHQRPA   439
NTDB id 1199 PSJM300 12650 AFN78592.1    LYAQWAMALGLLPAMLVLGLPVSLSGPLANLLAVPWISVLVVPLALLGSFLLWVPWLGEALLWLAGGLLAVLFELLALIAGWQPA   441
consensus                                **!*****!!!!**!*****!!*****!!**!*!**!****!!!!*!* *!********!*!****** *** !*!!**   **
```

```
logo
NTDB id 1426 RS RS05575 WP 011001070.1      WVAPAAPAWAWGLAVVGVPLLLVPGGYRAWAWRAQGAVLLLPMLLARAPAPPPGEFRMVAFDIGQGAATLVETAGHRLLFDTGPR   594
NTDB id 59150 L483 RS06940 WP 016485474.1   WLAPALPLWAWLLVLLGALLVLLPRGVP...LRGLGGVMLLAL.WVPREPVPLGQVEVWQLDVGQGLAVLLRTRHYNLLYDAGPA   520
NTDB id 1199 PSJM300 12650 AFN78592.1       WLASALPLWAWSLVALGTLVLLLPAGVP...LRVLGTLLLAPLLFAPDSRPEQGRAEVWVFDVGQGLSVLVRTRDHALLYDAGPR   523
consensus                                   !*!*!*!*!!! !***! ***!*!*!**   *!**!***!*******   ** !  *** *!*!!!***!**!* * !!*!*!!*

logo
NTDB id 1426 RS RS05575 WP 011001070.1      QGDLADAADRVIVPYLRGHGVQAIDTLVVSHEDSDHAGGTETVMAGVPVRTMLASLPPGHGLERQARALGIEPAGCVAGQRWAWD   679
NTDB id 59150 L483 RS06940 WP 016485474.1   RGET.DLGERVVLPTLSKLGVGSLDLMVISHAHADHAGGAAAIQRGLPVRRLIGGEALD..........DVPLQPCASGEQWNWD   594
NTDB id 1199 PSJM300 12650 AFN78592.1       YGDF.DIGERVVFPSLRQLGLERLDLMMLSHADSDHAGGALAIQRAMPVGAVLSGEPER.......LPAALDARSCRTGQRWTWN   600
consensus                                    !*  !***!!**!*!* *!*  *!****!!***!!!!!* ******!!* ******            ***   ! *!**! !*

logo
NTDB id 1426 RS RS05575 WP 011001070.1      GVAFEILYPVQVPSDRAAVSSNARSCVLRIANARYAAMLAGDIGRAQEAALIAAEAPERLMADILLVPHHGSRTSSSGAFLDAVS   764
NTDB id 59150 L483 RS06940 WP 016485474.1   GVRFSLWRWA......DGQSSNDRSCVLLVEAQGERLLLAGDMEAAAERAWLADT..EMPRIDWLQAPHHGSRSSSTEAFIRASA   671
NTDB id 1199 PSJM300 12650 AFN78592.1       QVNFSVWRWP......QATNGNQASCVLMVEAAGERLLLTGDIDAQAERALVDGG..MEVNARWLLAPHHGSNSSSSAVFLAAVA   677
consensus                                   *! !*****        * **! *!!!!*********!*!!*****!*!****   * * ***!**!!!!!**!!***!* !**

logo
NTDB id 1426 RS RS05575 WP 011001070.1      AQVAVFQVGYRNRYGHPHPQVWQRYGARGIERLRTDATGAVVIET..RGDALAVRTARSMRPRYWSSALEVAALAETTEPTGAQP   847
NTDB id 59150 L483 RS06940 WP 016485474.1   PRGVLISRGRNNSFGHPHVQVMERYQRHGLAVHDTAVEGALRLVLGRHGEVEG....IRGQRRFWRVRAE................   737
NTDB id 1199 PSJM300 12650 AFN78592.1       ADGALISRSSHNAFGHPHPAVLKRLQNAGAELHDTAEHGALSLQLGAFGGARR....MRDEPRFWREK..................   741
consensus                                   * *******  ! *!!!!**!* !**  !*****!*  !!* * **  !** *    **  *!*!* * *
```

X non conserved

X similar

X ≥ 50% conserved