```
logo
NTDB id 1426 RS RS05575 WP 011001070.1     MRALLIGFVAGCMALQTRPALAPVWQPALLGLACLLAMALLRRGARLPRLVPVMAVLAAACAGFGWSDWRAQQRLSVVLA   80
NTDB id 411061 GST84 RS19345 WP 238090201.1 MRTGMFALALGLLCLGFLPAL........PSVGWLITLAACAVGSLFTRVWPLGW....FLLGLCWACGSAQQALDDRLA   68
NTDB id 1199 PSJM300 12650 AFN78592.1      MRAGMLALAAGLLLLRFLPQL........PSFGWLLALAPVGLLLLPFRWRPLAF....FLFGLVWACLNAQWALDDRLP   68
consensus                                  !!*********!** ! **!*!        ******!***! **** *  !* !***    ** !* !**  !!**!***!*

logo
NTDB id 1426 RS RS05575 WP 011001070.1     PAWEGKDIRATGVVAELPEVTEDATRFLFRIESSDAGDAVPPRVRLSWYGLRSWHERQREAEAATDRRAGIPDLQPGQRW  160
NTDB id 411061 GST84 RS19345 WP 238090201.1 AGLEGRTLWLEGRVAGLPARTAQGVRFELEAPRS.RRAELPQRLQLSWFD....................GPPLRAGEQW  127
NTDB id 1199 PSJM300 12650 AFN78592.1      VDLDGRTFWLEGQVTGLPDRRGDVVRFELEDIHS.RHAGLPSRIRLAWYG....................GPEIRSGERW  127
consensus                                   ***!******! !**!!*******!!***   ! * ***! !**!*!**                  *!*** !**!

logo
NTDB id 1426 RS RS05575 WP 011001070.1     QLTLRLKRPHSLMNPGGFDGEYAMLADDVRAAGYVYTGKRARNALMGEADAGSGVGLRVERWRAAVRRHLLAALPEARYA  240
NTDB id 411061 GST84 RS19345 WP 238090201.1 RLAVTLQRPAGLLNPHGPDREAQLLARRVGATGTVKAGQLLAP..............VAGGWRDALRQRLLMVEANGR.Q  192
NTDB id 1199 PSJM300 12650 AFN78592.1      RLAARLKRPSGMVNPSAFDYEAWLLARRIGATGTIKAGERIAEAA............SSGAWRDRLRQRLLTVEAHGR.A  194
consensus                                  *!***!*!! ***!! **! !* *!!****!*!****! *** *               **!!***!**!! *** *! *

logo
NTDB id 1426 RS RS05575 WP 011001070.1     PVIVALVVGDQSGIAQADWERFRRTGISHLVSISGLHITMIAGLFGALWMALWRRSFGLARWLRTPLPLRMPAQRAGAVA  320
NTDB id 411061 GST84 RS19345 WP 238090201.1 AALVALVLGDGAGLAREDWQTLQATGTVHLLVISGQHIGLVAGLLYGLV.......AGLARWGLWP..ARLPWLPWACGL  263
NTDB id 1199 PSJM300 12650 AFN78592.1      GAIAALVVGDGSGLSTADWRVLQDTGTVHLMVISGQHVGMLAGLLYAVV.......LLLARWGIWP..QRLPWLPWACGL  265
consensus                                  ****!!!*!!**!** *!!  ** !!**!!*!!!!*!****!!!*****       *!!!!***!   !*!********

logo
NTDB id 1426 RS RS05575 WP 011001070.1     AMAAAFAYCLLAGMGVPAQRTLLMLATVAVARLADRSVPVSLSLCWAAALVALVDPWAVMSAGGWLSFGAVAVIFLAARI  400
NTDB id 411061 GST84 RS19345 WP 238090201.1 AMAAALAYGWLAGGGVPVQRACLMLAVVLLWRLRFRHLGAFFPLLLALVAVLVFEPLAALLPGFWLSFAAVATLIYCFSA  343
NTDB id 1199 PSJM300 12650 AFN78592.1      AFAGALGYGWLAGFEVPVRRACLMVAIVLLWRLRFRHLGVWLPLLIALVGVLMVDPLASLQPGFWLSFVAVALLIWIFRG  345
consensus                                  !*!*!**!**!!! *!!**!**!!*!*!***!!**!********!**!***!****!*! * *!*!!!!*!!!**** ***

logo
NTDB id 1426 RS RS05575 WP 011001070.1     VAADARDDVRRPAWPVRAWRGLRGAARVQLAVTFGLLPLTLLLFQQVSVVSAVANALAIPVVSFVTTPLALMGTA.LPEP  479
NTDB id 411061 GST84 RS19345 WP 238090201.1 R..............LGGWRPWQAWTRAQWVIAIGLLPVLLATGLPVSLSAPLANLVAVPWVSLAVLPLALLGTVLLPLG  409
NTDB id 1199 PSJM300 12650 AFN78592.1      R..............LGVPSWWRALLYAQWAMALGLLPAMLVLGLPVSLSGPLANLLAVPWISVLVVPLALLGSFLLWVP  411
consensus                                  *             ***** ***  **!*****!!!!**!*****!!******!!**!*!**!****!!!!*!* *!***
```

```
logo
NTDB id 1426 RS RS05575 WP 011001070.1     WSQPVLIWAEASFAWLMPWLDALALPGGSVWVAPAAPAWAWGLAVVGVPLLLVPGGYRAWAWRAQGAVLLLPMLLARAPA   559
NTDB id 411061 GST84 RS19345 WP 238090201.1 GVGDALLWMAGGLLEWLFRLLALVAQQHPAWVPPVLPGWAWLLVVLGALLVLLPRGVP...LRGLGVVMLLAL.WVPREP   485
NTDB id 1199 PSJM300 12650 AFN78592.1      WLGEALLWLAGGLLAVLFELLALIAGWQPAWLASALPLWAWSLVALGTLVLLLPAGVP...LRVLGTLLLAPLLFAPDSR   488
consensus                                  *****!*!****** *** !*!!**    **!*****!*!!! !***! ***!*!*!**    *!**! **!*******

logo
NTDB id 1426 RS RS05575 WP 011001070.1     PPPGEFRMVAFDIGQGAATLVETAGHRLLFDTGPRQGDLADAADRVIVPYLRGHGVQAIDTLVVSHEDSDHAGGTETVMA   639
NTDB id 411061 GST84 RS19345 WP 238090201.1 VPFGQVEVWQLDVGQGLAVLLQTRHHTLLYDAGPARGES.DLGERVVLSTLRKLGVGSLDLMVISHAHADHAGGAAAIQR   564
NTDB id 1199 PSJM300 12650 AFN78592.1      PEQGRAEVWVFDVGQGLSVLVRTRDHALLYDAGPRYGDF.DIGERVVFPSLRQLGLERLDLMMLSHADSDHAGGALAIQR   567
consensus                                  ** !  *** *!*!!!***!* !* ! !!*!*!!* !*  !***!!****!! *!*  *!****!!***!!!!!* ****

logo
NTDB id 1426 RS RS05575 WP 011001070.1     GVPVRTMLASLPPGHGLERQARALGIEPAGCVAGQRWAWDGVAFEILYPVQVPSDRAAVSSNARSCVLRIANARYAAMLA   719
NTDB id 411061 GST84 RS19345 WP 238090201.1 GLPVRRAIGGEAL.........DDVQLQPCVSGEQWDWDGVRFSLWRWA......DGQSSNDRSCVLLIEAQGERLLLA   628
NTDB id 1199 PSJM300 12650 AFN78592.1      AMPVGAVLSGEPER.......LPAALDARSCRTGQRWTWNQVNFSVWRWP......QATNGNQASCVLMVEAAGERLLLT   634
consensus                                  **!!* ******            ***   !**!**! !**! !*****        * **! *!!!!*********!*

logo
NTDB id 1426 RS RS05575 WP 011001070.1     GDIGRAQEAALIAAEAPERLMADILLVPHHGSRTSSSGAFLDAVSAQVAVFQVGYRNRYGHPHPQVWQRYGARGIERLRT   799
NTDB id 411061 GST84 RS19345 WP 238090201.1 GDMEAAAERAWLAET..EAPRIDWLQAPHHGSRSSSTEAFIRATAARGVLISRGRNNSFGHPHVQVMERYQRHGLAVHDT   706
NTDB id 1199 PSJM300 12650 AFN78592.1      GDIDAQAERALVDGG..MEVNARWLLAPHHGSNSSSSAVFLAAVAADGALISRSSHNAFGHPHPAVLKRLQNAGAELHDT   712
consensus                                  !!*****!*!****   * * ***!**!!!!!**!!***!* !**! *******  ! *!!!!**!* !**  !*****!

logo
NTDB id 1426 RS RS05575 WP 011001070.1     DATGAVVIET..RGDALAVRTARSMRPRYWSSALEVAALAETTEPTGAQP   847
NTDB id 411061 GST84 RS19345 WP 238090201.1 AVEGALRLVLGRQGEVEF....VRGQRRFWRAQLD...............   737
NTDB id 1199 PSJM300 12650 AFN78592.1      AEHGALSLQLGAFGGARR....MRDEPRFWREK................   741
consensus                                  *  !!* * **  !**      **  *!*!*  **
```

X non conserved

X similar

X ≥ 50% conserved