```
logo
NTDB id 1426 RS RS05575 WP 011001070.1      MRALLIGFVAGCMALQTRPALAPVWQPALLGLACLLAMALLRRGARLPRLVPVMAVLAAACAGFGWSDWRAQQRLSVVLA   80
NTDB id 279601 C4J89 RS15705 WP 124414954.1 MRTGMFALALGLLTLRFLPVLPPI........GWLLAMLVLALMLLPFRT....YPLAFFLLGLSWACISAQWALDDRLR   68
NTDB id 1199 PSJM300 12650 AFN78592.1       MRAGMLALAAGLLLLRFLPQLPSF........GWLLALAPVGLLLLPFRW....RPLAFFLFGLVWACLNAQWALDDRLP   68
consensus                                   !!*********!** !***! !***        **!!!*************!      *!!*** !* !*** !!**!***!

logo
NTDB id 1426 RS RS05575 WP 011001070.1      PAWEGKDIRATGVVAELPEVTEDATRFLFRIESSDAGDAVPPRVRLSWYGLRSWHERQREAEAATDRRAGIPDLQPGQRW  160
NTDB id 279601 C4J89 RS15705 WP 124414954.1 PALDGETRWVEGRVVGLPQQTDTGVRFDLADS.RSRKARLPKRIRVSWHG....................GPPVRSGERW  127
NTDB id 1199 PSJM300 12650 AFN78592.1       VDLDGRTFWLEGQVTGLPDRRGDVVRFELEDI.HSRHAGLPSRIRLAWYG....................GPEIRSGERW  127
consensus                                   ****!** ***! ! *!!* *****!!** *    ** ***! !*!**!*!                    *!*****!*!!

logo
NTDB id 1426 RS RS05575 WP 011001070.1      QLTLRLKRPHSLMNPGGFDGEYAMLADDVRAAGYVYTGKRARNALMGEADAGSGVGLRVERWRAAVRRHLLAALPEARYA  240
NTDB id 279601 C4J89 RS15705 WP 124414954.1 RLAVTLKRPSGLLNFHGFDHEAWLLAQRIGATGSVKDGQRLTPA..............RNALRDSLRQRLLAADAQT.HE  192
NTDB id 1199 PSJM300 12650 AFN78592.1       RLAARLKRPSGMVNPSAFDYEAWLLARRIGATGTIKAGERIAEAA............SSGAWRDRLRQRLLTVEAHG.RA  194
consensus                                   *!**!!!!***!* *!! !***!! ***!*!*** ! !*  !                **!* *!**!!**** *  *

logo
NTDB id 1426 RS RS05575 WP 011001070.1      PVIVALVVGDQSGIAQADWERFRRTGISHLVSISGLHITMIAGLFGALWMALWRRSFGLARWLRTPLPLRMPAQRAGAVA  320
NTDB id 279601 C4J89 RS15705 WP 124414954.1 AAVAALVLGDGSGLRAEQWQVLQDTGTVHLLVISGQHIGLLAGLIYALVAG.......MARYGCWP..RNLPWLPWACGL  263
NTDB id 1199 PSJM300 12650 AFN78592.1       GAIAALVVGDGSGLSTADWRVLQDTGTVHLMVISGQHVGMLAGLLYAVVLL.......LARWGIWP..QRLPWLPWACGL  265
consensus                                   ****!!!*!!*!!*  **! ****!!**!!*****!!!*!****!!!**!****       *!!** *!   **!********

logo
NTDB id 1426 RS RS05575 WP 011001070.1      AMAAAFAYCLLAGMGVPAQRTLLMLATVAVARLADRSVPVSLSLCWAAALVALVDPWAVMSAGGWLSFGAVAVIFLAARI  400
NTDB id 279601 C4J89 RS15705 WP 124414954.1 AFMAALGYGLLAGFGVPVQRACVMVGLVLLWRLRFRHLGVWWPLLLAFNAVLLEPLASLQPGFWLSFAAVAILVLTFGG  343
NTDB id 1199 PSJM300 12650 AFAGALGYGWLAGFEVPVRRACLMVAIVLLWRLRFRHLGVWLPLLIALVGVLMVDPLASLQPGFWLSFVAVALLIWIFRG  345
consensus                                   !***!**!**!!!**!!**!***!***!***!!**!***!***!**!  *!****!*!****!*!!!!*!!!**** ***

logo
NTDB id 1426 RS RS05575 WP 011001070.1      VAADARDDVRRPAWPVRAWRGLRGAARVQLAVTFGLLPLTLLLFQQVSVVSAVANALAIPVVSFVTTPLALMGTALP.EP  479
NTDB id 279601 C4J89 RS15705 WP 124414954.1 R.......L.......GPWSVWQAWTRPQWLIAIGLFPVLLVLSLPISLTAPVANLFAVPWISLVVLPLALLGTALLWLP  409
NTDB id 1199 PSJM300 12650 AFN78592.1       R.......L.......GVPSWWRALLYAQWAMALGLLPAMLVLGLPVSLSGPLANLLAVPWISVLVVPLALLGSFLLWVP  411
consensus                                   *        *        * ** ***   * !*****!!*!**!*!  ***!*****!!**!*!**!****!!!!*!**!***!
```

```
logo
NTDB id 1426 RS RS05575 WP 011001070.1      WSQPVLIWAEASFAWLMPWLDALALPGG..SVWVAPAAPAWAWGLAVVGVPLLLVPGGYRAWAWRAQGAVLLLPMLLARA   557
NTDB id 279601 C4J89 RS15705 WP 124414954.1 LAGDGLLWLAGGA..LEGWFKGLTLLAGQLPAWTPAEVPLVYWLVSLAGAVLLLLPKGVP...FRLLGWPMLLLAVFPPK   484
NTDB id 1199 PSJM300 12650 AFN78592.1       WLGEALLWLAGGL..LAVLFELLALIAGWQPAWLASALPLWAWSLVALGTLVLLLPAGVP...LRVLGTLLLAPLLFAPD   486
consensus                                   * ***!*!****   !  ****!*!**!  **!** **!***! * **! **!!*!*!**   *!**! **!*******

logo
NTDB id 1426 RS RS05575 WP 011001070.1      PAPPPGEFRMVAFDIGQGAATLVETAGHRLLFDTGPRQGDLADAADRVIVPYLRGHGVQAIDTLVVSHEDSDHAGGTETV   637
NTDB id 279601 C4J89 RS15705 WP 124414954.1 ESVPHGQVTVVQLDVGQGQAVILRTRNHALLYDAGPRSGAV.DLGARVVLPSLKKFGVERLDMLLLSHADADHAGGAAAV   563
NTDB id 1199 PSJM300 12650 AFN78592.1       SRPEQGRAEVWVFDVGQGLSVLVRTRDHALLYDAGPRYGDF.DIGERVVFPSLRQLGLERLDLMMLSHADSDHAGGALAI   565
consensus                                     ** !   ** *!*!!! *****!* !*!!*!*!!! !** !***!!**!*!*  !****!****!!*!*!!!!!* **

logo
NTDB id 1426 RS RS05575 WP 011001070.1      MAGVPVRTMLASLPPGHGLERQARALGIEPAGCVAGQRWAWDGVAFEILYPVQVPSDRAAVSSNARSCVLRIANARYAAM   717
NTDB id 279601 C4J89 RS15705 WP 124414954.1 ARGLPIRRVVGGETEGL.......PAFLGTEPCVSGERWEWDGVSFVLWQW......SDALGGNAKSCVLQVQASGERLL   630
NTDB id 1199 PSJM300 12650 AFN78592.1       QRAMPVGAVLSGEPERL.......PAALDARSCRTGQRWTWNQVNFSVWRW......PQATNGNQASCVLMVEAAGERLL   632
consensus                                    ***!** *********       *****   !**!*!! !**! ! ** *        !* *!**!!!! * *******

logo
NTDB id 1426 RS RS05575 WP 011001070.1      LAGDIGRAQEAALIAAEAPERLMADILLVPHHGSRTSSSGAFLDAVSAQVAVFQVGYRNRYGHPHPQVWQRYGARGIERL   797
NTDB id 279601 C4J89 RS15705 WP 124414954.1 LTGDIDRAAERALLD..TPLAVPTDWLQAPHHGSRSSSSRPFVQRLAPGSVLISRGRGNAFGHPHSQVVERYRALGSRLY   708
NTDB id 1199 PSJM300 12650 AFN78592.1       LTGDIDAQAERALVD..GGMEVNARWLLAPHHGSNSSSSAVFLAAVAADGALISRSSHNAFGHPHPAVLKRLQNAGAELH   710
consensus                                   !*!!!****!*!!**  *** * ***!**!!!!!**!!!* !* ****  ******  !**!!!!**!* !* * ! **

logo
NTDB id 1426 RS RS05575 WP 011001070.1      RTDATGAVVIETRGDALAVRTARSMRPRYWSSALEVAALAETTEPTGAQP   847
NTDB id 279601 C4J89 RS15705 WP 124414954.1 DSAEQGAVRLQLGAFQP..AVVARSQRRFWREPLP................   741
NTDB id 1199 PSJM300 12650 AFN78592.1       DTAEHGALSLQLGAFGG..ARRMRDEPRFWREK................   741
consensus                                   **** !!* *******   *   *  *!*!** *
```

X non conserved

X similar

X ≥ 50% conserved