```
logo
NTDB id 1426 RS RS05575 WP 011001070.1      MRALLIGFVAGCMALQTRPALAPVWQPALLGLACLLAMALLRRGARLPRLVPVMAVLAAACAGFGWSDWRAQQRLSVVLA   80
NTDB id 270272 BKM03 RS09770 WP 005739741.1 MRTGMIALALGLVVLRFLPALPPTWLVLLMPILALMLLPFRT............YPLALFLLGFTWACVSAQWALNDRLQ   68
NTDB id 1199 PSJM300 12650 AFN78592.1       MRAGMLALAAGLLLLRFLPQLPSFGWLLALAPVGLLLLPFRW............RPLAFFLFGLVWACLNAQWALDDRLP   68
consensus                                   !!********!***!***!*!** * ********!******              *!! ** !* !*** !!**! **!

logo
NTDB id 1426 RS RS05575 WP 011001070.1      PAWEGKDIRATGVVAELPEVTEDATRFLFRIESSDAGDAVPPRVRLSWYGLRSWHERQREAEAATDRRAGIPDLQPGQRW  160
NTDB id 270272 BKM03 RS09770 WP 005739741.1 QRLDGQTLWLQGKVVGLPSVAEGVVRFELEHATS.RRAKLPALIRVAWYG....................GPEVRSGERW  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 270272 BKM03 RS09770 WP 005739741.1 RLAVKLKRPGGLVNPDAFDYQAWLLAQRIGATGTVVDGRRLAPA..............HAAWRDGIRQRLLAVDAQGR.E  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 270272 BKM03 RS09770 WP 005739741.1 GGLAALVLGDGSGLSSGDWQVLQDTGTVHLLVISGQHIGLLAGVIYALV.......AGLARWGLWP..RALPWLPSACAL  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 270272 BKM03 RS09770 WP 005739741.1 AFIAALGYGLLAGFEVPVRRACVMVGMVLLWRLRFRHLGVVWPFLISFNAVLIVEPLVTLQPGFWLSFAAVGILVLIFS.  342
NTDB id 1199 PSJM300 12650 AFAGALGYGWLAGFEVPVRRACLMVAIVLLWRLRFRHLGVWLPLLIALVGVLMVDPLASLQPGFWLSFVAVALLIWIFR.  344
consensus                                   !***!**!**!!!**!!**!***!***!***!!**!***! ******  *!**!*!*****!*!!!!*!!********

logo
NTDB id 1426 RS RS05575 WP 011001070.1      VAADARDDVRRPAWPVRAWRGLRGAARVQLAVTFGLLPLTLLLFQQVSVVSAVANALAIPVVSFVTTPLALMGTA.LPEP  479
NTDB id 270272 BKM03 RS09770 WP 005739741.1 ......GRLGSWSW.......WQSWTRAQWLIAIGLLPILLALNLPISLSGPFANLLAVPWVSVIVLPPALIGTLLLPFP  409
NTDB id 1199 PSJM300 12650 AFN78592.1       ......GRLGVPSW.......WRALLYAQWAMALGLLPAMLVLGLPVSLSGPLANLLAVPWISVLVVPLALLGSFLLWVP  411
consensus                                        **** **!        ***  **!*****!!!!**!*! ***!*****!!*!!!*!**!****!*!!*!* *!* !
```

```
logo
NTDB id 1426 RS RS05575 WP 011001070.1      WSQPVLIWAEAS.FAWLMPWLDALALPGGSVWVAPAAPAWAWGLAVVGVPLLLVPGGYRAWAWRAQGAVLLLPMLLARAP   558
NTDB id 270272 BKM03 RS09770 WP 005739741.1 VVGEGLLWLAGGALEWLFVFLG.WVAEALPAWLPSAVPGWAWLLSLLGAFVLLLPKGVP...LRLLGWPLLLLCVFPPLK   485
NTDB id 1199 PSJM300 12650 AFN78592.1       WLGEALLWLAGGLLAVLFELLA.LIAGWQPAWLASALPLWAWSLVALGTLVLLLPAGVP...LRVLGTLLLAPLLFAPDS   487
consensus                                   ****!*!**** ***!* *!* *** * **!***!*!*!!! ! **!  *!!*!*!**   *!**! *!!********

logo
NTDB id 1426 RS RS05575 WP 011001070.1      APPPGEFRMVAFDIGQGAATLVETAGHRLLFDTGPRQGDLADAADRVIVPYLRGHGVQAIDTLVVSHEDSDHAGGTETVM   638
NTDB id 270272 BKM03 RS09770 WP 005739741.1 SVPMGQVEVLQLDVGQGLAILLRTRNHTLLYDAGPRFGEF.DIGQRVVVPAMRKSGVRHLDLMLISHADADHAGGAAAVH   564
NTDB id 1199 PSJM300 12650 AFN78592.1       RPEQGRAEVWVFDVGQGLSVLVRTRDHALLYDAGPRYGDF.DIGERVVFPSLRQLGLERLDLMMLSHADSDHAGGALAIQ   566
consensus                                    ** !  *** *!*!!!**!**!* ! !!*!*!!!*!** !***!!**! *!  !*  *!****!!*!*!!!!!* **

logo
NTDB id 1426 RS RS05575 WP 011001070.1      AGVPVRTMLASLPPGHGLERQARALGIEPAGCVAGQRWAWDGVAFEILYPVQVPSDRAAVSSNARSCVLRIANARYAAML   718
NTDB id 270272 BKM03 RS09770 WP 005739741.1 RAFPVNRVLGGELTR.......LAPQLDARLCENNERWEWDGVVFSTWRWEQA......PDGNAGSCMLSVDAGGERLLL   631
NTDB id 1199 PSJM300 12650 AFN78592.1       RAMPVGAVLSGEPER.......LPAALDARSCRTGQRWTWNQVNFSVWRWPQA......TNGNQASCVLMVEAAGERLLL   633
consensus                                   ***!!  *!**** *       ** ***** !  **!! !**! !***** !*        *!**!!*! *********!

logo
NTDB id 1426 RS RS05575 WP 011001070.1      AGDIGRAQEAALIAAEAPERLMADILLVPHHGSRTSSSGAFLDAVSAQVAVFQVGYRNRYGHPHPQVWQRYGARGIERLR   798
NTDB id 270272 BKM03 RS09770 WP 005739741.1 TGDIDVHAERAAMDS..GFDLRAHWLQAPHHGSRSSSSKVFLQAVAPVGVLISRGQNNAFGHPHPLVMSRYRWLGITHHD   709
NTDB id 1199 PSJM300 12650 AFN78592.1       TGDIDAQAERALVDG..GMEVNARWLLAPHHGSNSSSSAVFLAAVAADGALISRSSHNAFGHPHPAVLKRLQNAGAELHD   711
consensus                                   *!!!*  *!*!**** * ** ! *!**!!!!!**!!!**!! !!** *******  !**!!!!! !* !*   !** **

logo
NTDB id 1426 RS RS05575 WP 011001070.1      TDATGAVVIETRGDALAVRTARSMRPRYWSSALEVAALAETTEPTGAQP   847
NTDB id 270272 BKM03 RS09770 WP 005739741.1 SAELGAISLQLG..AFGQPRAERAQRRFWRD..................   738
NTDB id 1199 PSJM300 12650 AFN78592.1       TAEHGALSLQLG..AFGGARRMRDEPRFWREK................   741
consensus                                   *** !!******  !**  ** *  *!*!**
```

X non conserved

X similar

X ≥ 50% conserved