```
logo
NTDB id 1426 RS RS05575 WP 011001070.1      MRALLIGFVAGCMALQTRPALAPVWQPALLGLACLLAMALLRRGARLPRLVPVMAVLAAACAGFGWSDWRAQQRLSVVLA   80
NTDB id 215690 PspR76 RS12625 WP 159955652.1 MRTGMFALGLGLLSLRFFPAL........PSIGWLLAMSVVALML.LPF...RTHPMAFFLLGISWACLSAQSALDDRLT   68
NTDB id 1199 PSJM300 12650 AFN78592.1       MRAGMLALAAGLLLLRFLPQL........PSFGWLLALAPVGLLL.LPF...RWRPLAFFLFGLVWACLNAQWALDDRLP   68
consensus                                   !!*********!** !** !*!        *****!!!*********  !!*   *  **!***  !* !***  !!  *!***!

logo
NTDB id 1426 RS RS05575 WP 011001070.1      PAWEGKDIRATGVVAELPEVTEDATRFLFRIESSDAGDAVPPRVRLSWYGLRSWHERQREAEAATDRRAGIPDLQPGQRW  160
NTDB id 215690 PspR76 RS12625 WP 159955652.1 PALDGQTRWVEGRVVGLPQQTSTGVRFELTDNRS.RKAQLPKRIRVSWHG....................GPQVNSGERW  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 215690 PspR76 RS12625 WP 159955652.1 RLAVTLKRPSGLLNFHGFDYEAWLLAQRIGATGSVKDGQRLAPA..............RNAWRDRLRQRLSSVDAQ.GRE  192
NTDB id 1199 PSJM300 12650 AFN78592.1       RLAARLKRPSGMVNPSAFDYEAWLLARRIGATGTIKAGERIAEAA............SSGAWRDRLRQRLLTVEAH.GRA  194
consensus                                   *!***!!!!****!* *!!*!***!! ***!*!*** ! !** !                 *!!***!**!*****  ***

logo
NTDB id 1426 RS RS05575 WP 011001070.1      PVIVALVVGDQSGIAQADWERFRRTGISHLVSISGLHITMIAGLFGALWMALWRRSFGLARWLRTPLPLRMPAQRAGAVA  320
NTDB id 215690 PspR76 RS12625 WP 159955652.1 AGLAALVLGDGSGLGTEDWRVLQDTGTVHLLVISGQHIGLLAGLIYGLVA.......GLARYGCWP..RALPWLPWACAL  263
NTDB id 1199 PSJM300 12650 AFN78592.1       GAIAALVVGDGSGLSTADWRVLQDTGTVHLMVISGQHVGMLAGLLYAVVL.......LLARWGIWP..QRLPWLPWACGL  265
consensus                                   ****!!!*!!*!!****!!*****!!**!!**!!!*!****!!!******       *!!!** *!   **!*******

logo
NTDB id 1426 RS RS05575 WP 011001070.1      AMAAAFAYCLLAGMGVPAQRTLLMLATVAVARLADRSVPVSLSLCWAAALVALVDPWAVMSAGGWLSFGAVAVIFLAARI  400
NTDB id 215690 PspR76 RS12625 WP 159955652.1 AFAAALGYGLLAGFGVPVQRACVMVGLVLLWRLRFRHLGVWWPLLLAFDAVLLLEPLASLQPGFWLSFAAVAVLVLAFSG  343
NTDB id 1199 PSJM300 12650 AFN78592.1       AFAGALGYGWLAGFEVPVRRACLMVAIVLLWRLRFRHLGVWLPLLIALVGVLMVDPLASLQPGFWLSFVAVALLIWIFRG  345
consensus                                   !*!*!**!**!!!**!!**!***!***!***!!**!***!***!**!  *!****!*!****!*!!!!*!!!********

logo
NTDB id 1426 RS RS05575 WP 011001070.1      VAADARDDVRRPAWPVRAWRGLRGAARVQLAVTFGLLPLTLLLFQQVSVVSAVANALAIPVVSFVTTPLALMGTAL.PEP  479
NTDB id 215690 PspR76 RS12625 WP 159955652.1 R..............LGAWSCWQLWTRPQWLIAIGLFPVLLVLGLPISLSAPLANLLAVPWISFVVLPLALLGTALLAVP  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 215690 PspR76 RS12625 WP 159955652.1 LVGAGLLWLAGGALDGLFRGLALLAGQSPAWIPAEVPLGYWWVSLAGAVLLLLPKGVP...FRLLGWPMLLLAVFPPRQL   486
NTDB id 1199 PSJM300 12650 AFN78592.1       WLGEALLWLAGGLLAVLFELLALIAGWQPAWLASALPLWAWSLVALGTLVLLLPAGVP...LRVLGTLLLAPLLFAPDSR   488
consensus                                   *** *!*!**** * *** **!!*** **!** **!***! * **! **!!*!*!**   *!**! **!*******

logo
NTDB id 1426 RS RS05575 WP 011001070.1      PPPGEFRMVAFDIGQGAATLVETAGHRLLFDTGPRQGDLADAADRVIVPYLRGHGVQAIDTLVVSHEDSDHAGGTETVMA   639
NTDB id 215690 PspR76 RS12625 WP 159955652.1 VPQGQVEVTQLDVGQGQALILRTRHHTLLYDAGPRSGAF.DMGARVVVPALRKLGVEALDMMLISHAHADHAGGAAAVAR   565
NTDB id 1199 PSJM300 12650 AFN78592.1       PEQGRAEVWVFDVGQGLSVLVRTRDHALLYDAGPRYGDF.DIGERVVFPSLRQLGLERLDLMMLSHADSDHAGGALAIQR   567
consensus                                   ***!  **  *!*!!! *****!* ! !!*!*!!! !** !***!!**! !! *!****!****!!***!!!!!* ** *

logo
NTDB id 1426 RS RS05575 WP 011001070.1      GVPVRTMLASLPPGHGLERQARALGIEPAGCVAGQRWAWDGVAFEILYPVQVPSDRAAVSSNARSCVLRIANARYAAMLA   719
NTDB id 215690 PspR76 RS12625 WP 159955652.1 ALAVRRVVGGEVEGL.......PALLAVQPCVSGEQWEWDGVVFEFWRWP......GATDSNPKSCVLRVQANGERLLLT   632
NTDB id 1199 PSJM300 12650 AFN78592.1       AMPVGAVLSGEPERL.......PAALDARSCRTGQRWTWNQVNFSVWRWP......QATNGNQASCVLMVEAAGERLLLT   634
consensus                                   ***!* ********       *****   !**!**! !**! !******      *!* *! *!!!!** *******!*

logo
NTDB id 1426 RS RS05575 WP 011001070.1      GDIGRAQEAALIAAEAPERLMADILLVPHHGSRTSSSGAFLDAVSAQVAVFQVGYRNRYGHPHPQVWQRYGARGIERLRT   799
NTDB id 215690 PspR76 RS12625 WP 159955652.1 GDIDRDAEQAFLASA..LAVPTDWLQAPHHGSRSSSSGPFLERLAPKSVLISRGRGNAFGHPHPQVMQRYRALGSRVYDS   710
NTDB id 1199 PSJM300 12650 AFN78592.1       GDIDAQAERALVDGG..MEVNARWLLAPHHGSNSSSSAVFLAAVAADGALISRSSHNAFGHPHPAVLKRLQNAGAELHDT   712
consensus                                   !!!** *! !***** * * ***!**!!!!!**!!!* !!*****  ******  !**!!!!!*!**!* * ! ** **

logo
NTDB id 1426 RS RS05575 WP 011001070.1      DATGAVVIETRGDALAVRTARSMRPRYWSSALEVAALAETTEPTGAQP   847
NTDB id 215690 PspR76 RS12625 WP 159955652.1 AEQGAVRLQLGAF..QAPVVARSQRRFWREALL...............   741
NTDB id 1199 PSJM300 12650 AFN78592.1       AEHGALSLQLGAF..GGARRMRDEPRFWREK.................   741
consensus                                   ** !!* ******  **     *  *!*!****
```

X non conserved

X similar

X ≥ 50% conserved