```
logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  ........................MPSWGWAWLCLIVMVLLGYHRVGRQFLGFVAAILTIVLQGNLIRDQSNVLYQAGP   55
NTDB id 1149 A1552VC RS08405 WP 000173776.1    MTLLSNYWSLISFSITVLSAPYWPWMPSWGWAWLCLIVMVLLGYHRVGRQFLGFVAAILTIVLQGNLIRDQSNVLYQAGP   80
NTDB id 1396 DSB67 RS04755 WP 010649088.1      MTLLEKSLTLALFVASVISSAWWPTMPDWRWLLLGIIATGSIIKLRRGLLSIGVIWGFMVVIIHGNVMEHQRQALFRAGG   80
NTDB id 1295 VP RS04795 WP 005481856.1         MTLLEKSWTLALFVASVISSAWWPTMPDWRWLLLGIITTGSIIKLRRGLISIGVIVGFMVVIVHGNIMEYQRQALFQAGE   80
consensus                                      ************************!! ! !  !**!*   *  *! ! * *! *** * ****!!** *! * !**!!*

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  DIIIKGRVDSFFTQTRYAYEGFVLIHEVNGQTLNKMTRPRIRLSAPLLLQPNDRVEFSVTLKPIVGRLNQTGFDLEAHYM  135
NTDB id 1149 A1552VC RS08405 WP 000173776.1    DIIIKGRVDSFFTQTRYAYEGFVLIHEVNGQTLNKMTRPRIRLSAPLLLQPNDRVEFSVTLKPIVGRLNQTGFDLEAHYM  160
NTDB id 1396 DSB67 RS04755 WP 010649088.1      NITINGKVDSPFTQISHGYEGIAQINQVNSQNLLPFLKPKIRLITAFPLPVNSEFTTQVTIKPILGLKNEAGFDAEKQAV  160
NTDB id 1295 VP RS04795 WP 005481856.1         NSTIIGRVDSSFTQISHGYEGVVAIKQVNSHTLLPFLKPKVRLITPFPLAVNSEFTTNVLIKPIIGLRNEAGFDAEKQSM  160
consensus                                       * !*!*!!!*!!!  **!!!***!* !! **! *  *!**!!  * *!**!     *!**!!!*! *!  !!! ! ***

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  AQSVVARAVVKPDTAYQIVQESGIRSSLFFELEQLTHTSPYQGLILALTFGERKGIDEQEWQALRNSGLIHLVAISGLHI  215
NTDB id 1149 A1552VC RS08405 WP 000173776.1    AQSVVARAVVKPDTAYQIVQESGIRSSLFFELEQLTHTSPYQGLILALTFGERKGIDEQEWQALRNSGLIHLVAISGLHI  240
NTDB id 1396 DSB67 RS04755 WP 010649088.1      GKGIVARAVTPDDAKWLIRTYSSFRQQIITAVDTHIAELDHFPLISALAFSDRSLLAKQDWQSLRDSGLLHLVSISGLHI  240
NTDB id 1295 VP RS04795 WP 005481856.1         GSGVVARAVVTKDSYWVIRTSSSWREAIIQTVERDISRLEHFALIKALAFADRTGLTKEDWQSLRDSGLLHLVSISGLHI  240
consensus                                      ** *!!!!!***!****!  *! *!*** ****** ** ** *!!*!! !**!**** **!! !! !!!*!!! !!!!!!

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  GIAFSVGYFLGLGMMRLHAQLLWSPFVCGALMAVLYAWLAGFTLPTQRALIMCLLNVALLMLAFPLSALKRILLTLVAVL  295
NTDB id 1149 A1552VC RS08405 WP 000173776.1    GIAFSVGYFLGLGMMRFHAQLLWSPFVCGALLAVLYAWLAGFTLPTQRALIMCLLNVALIMLAFPLSALKRILLTLVAVL  320
NTDB id 1396 DSB67 RS04755 WP 010649088.1      GMAFAFGMSLGFVIRLLFPKFVHLPSAVGLLAALVYAWLADFSLPTTRAFSVCVIYLVLKAALVHWSPWRVLLLAVSIQL  320
NTDB id 1295 VP RS04795 WP 005481856.1         GMALIFGLALGGLIRLAMPRYWFLPSVSGLAFAIVYAWLADFSLPTTRAVSVCIIYIALKYWLVHWSPWRVLLLAVALQL  320
consensus                                      !*!** !**!!***  ******* ! **! **!**!!!!! !*!!! !!* *!** **!***    !* * *!! *** !

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  LWSPFASLSNSFWMSFLAVAIVLYQLASQ....SQRQVWWKALLWAQVFLVCLMAPLTAYFFGGLSVTAVLYNLVFIPWF  371
NTDB id 1149 A1552VC RS08405 WP 000173776.1    LWSPFASLSNSFWMSFLAVAIVLYQLASQ....SQRQVWWKALLWAQVFLVCLMAPVTAYFFGGLSVTAVLYNLVFIPWF  396
NTDB id 1396 DSB67 RS04755 WP 010649088.1      FIEPFASFTMSFWLSYLSVVAVLLAVNVVQQRRGNRQTKLSSLLKIQLVLTLLIVPISGAFFSGTSLVSIAYNLVFIPWF  400
NTDB id 1295 VP RS04795 WP 005481856.1         FFQPFASFSLSFWLSYLSVGAVLFAVNTVQDSKEGRLGKLRILLLTQLILSLLIVPISGYFFSGFSWSSLVYNLVFIPWF  400
consensus                                       **!!!! **!!!*!*! !* !!* * * *  ***!**  **!!**!**!**!* !****!! !*!** **!!!!!!!!!

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  SLVIVPALFLGLLLMVVWPSVAAAYWPWVDWTFLPLDWALRFADVGWWVVPSKVQGVVAASVAILLLYRFMNLKACSL.L  450
NTDB id 1149 A1552VC RS08405 WP 000173776.1    SLVIVPALFLGLLLMVVWPSVAAAYWPWVDWTFLPLDWALQFADVGWWVVPSKVQGVVAASVAILLLYRFMSLKACSL.L  475
NTDB id 1396 DSB67 RS04755 WP 010649088.1      GFLVVPLMFLALIVTPISFQLAGMLWQLVDWVLLPLTWSLQFAVGSWHFVSLPLTLTILAVAICGLLRRFLNRGSLVTLV  480
NTDB id 1295 VP RS04795 WP 005481856.1         GFVVVPIMFAALIASLLFPMLATVLWYLLDIFLVPLSWSVRYAIGTWQPISAEWTFVIAVVSAVLVSRHVMPRYVWMFVC  480
consensus                                       **!!**!**!********!** !* *!** *!!*! * *!* *!******* ***** ****** **** ******
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logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  LGMIGLWWWWFPSLTPLWRMDVLDVGHGLAIVIEQDERAIVYDTGSSWPGGSYVQSVIEPILQQRGLRQVDGVILSHLDND   530
NTDB id 1149 A1552VC RS08405 WP 000173776.1    LGMIGLWWWWFPSLTPLWRMDVLDVGHGLAIVIEQDERAIVYDTGSSWPGGSYVQSVIEPMLQQRGLRQVDGVILSHLDND   555
NTDB id 1396 DSB67 RS04755 WP 010649088.1      MLVTGVALFYERTTNSWRVDVLDVGHGLAVLIEKHGKVALYDTGKAWNSGSIAQQVISPVLHRRGFGTIDMFIISHADSD   560
NTDB id 1295 VP RS04795 WP 005481856.1         VIVVMTGLFPKQYNQTWRIDVLDVGHGLAVLVEKEGRVLLYDTGKAWQNGSIAEQVITPVLHRRGYSSVDTMILSHADND   560
consensus                                      ******* ********!!*!!!!!!!!!!!***! * * **!!!!  !**!!  * !!*!*!* !!****!**!*!! !*!

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  HAGDWQGLAERWQPNWIRASQLGTEFMPCIRGESWQWQSLHFTVLWPPQAVSRAYNQHSCVIRMTDTHSKHSVLLSGDVT   610
NTDB id 1149 A1552VC RS08405 WP 000173776.1    HAGDWQGLAERWQPNWIRASQLGTEFMPCIRGESWQWQSLHFTVLWPPQAVSRAYNQHSCVIRMTDTQSNHSVLLSGDVT   635
NTDB id 1396 DSB67 RS04755 WP 010649088.1      HAGGRQYIEQHFSPAQNFSSQNYADYQSCIAGERWYWQALYFEVLWPPKQVNRAYNPHSCVVRVVDKESGFKLLLTGDIE   640
NTDB id 1295 VP RS04795 WP 005481856.1         HAGGRKVIEQYFSPKHKLSSQSFLHYQPCIAAEKWKWQGLNMEVLWPPKPVVRAYNPHSCVISLEDPSTGFKMLFTGDIE   640
consensus                                      !!!  ***  ** !**** !!***** *!! *!*!*!!*!** !!!!! *!*!!!!*!!!!****!* *** *!**!!*

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  AMGEWLLARDGAQLQSEVMIVPHHGSKTSSTAEFIAQVNPKLAIASVAKDNRWNLPNPQVVARYQAQQVEWLDTGHAGQI   690
NTDB id 1149 A1552VC RS08405 WP 000173776.1    AMGEWLLARDGAQLQSEVMIVPHHGSKTSSTAEFIAQVNPKLAIASVAKDNRWNLPNPQVVARYQAQQVEWLDTGHAGQI   715
NTDB id 1396 DSB67 RS04755 WP 010649088.1      AVSEWILMREPNKLESDVMLVPHHGSKSSSNPKFVQIVSPTLAIASLAKSNQWGMPAENVLSAYQEANAYWLDTGSHGQV   720
NTDB id 1295 VP RS04795 WP 005481856.1         AISEWILLREPEKLRSDVMLVPHHGSKSSSNPKFINVVEPSLAIASTAKLNQWGMPAPEVVQAYTDSGVSWLDTGSDGQI   720
consensus                                      !* !!*!*!*** !*!*!!*!!!!!!!*!! * !***!*!*!!!!!*!!*! ! *! **!** !******!!!!!**!!*

logo
NTDB id 1022765 ABU640 RS05035 WP 170832335.1  SLFFYPDQLDWFTQRSLGWQPWYRQMLRKGVE   722
NTDB id 1149 A1552VC RS08405 WP 000173776.1    SLFFYLDQLDWFTQRSLGWQPWYRQMLRKGVE   747
NTDB id 1396 DSB67 RS04755 WP 010649088.1      SVFIERDNWYFEAKRSETFEPWYRQMLRKRVE   752
NTDB id 1295 VP RS04795 WP 005481856.1         TILLDGNNWRFESKRRETIEPWYRQMLRNRVE   752
consensus                                      ***** ** ** * !*  * !!!!!!!!* !!
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X non conserved

X similar

X $\geq$ 50% conserved