```
logo
NTDB id 1149 A1552VC RS08405 WP 000173776.1   MTLLSNYWSLISFSITVLSAPYWPWMPSWGWAWLCLIVMVLLGYHRVGRQFLGFVAAILTIVLQGNLIRDQSNVLYQAGP   80
NTDB id 1396 DSB67 RS04755 WP 010649088.1     MTLLEKSLTLALFVASVISSAWWPTMPDWRWLLLGIIATGSIIKLRRGLLSIGVIWGFMVVIIHGNVMEHQRQALFRAGG   80
NTDB id 203748 K04M3 RS04960 WP 086046605.1  MTLSEKSWTLALFVASVISSAWWPTIPDWRWLLLGIITTGSIIKLRRGLISIGAIAGFMVVIVHGNVLESQRQALFQAGE   80
NTDB id 1295 VP RS04795 WP 005481856.1        MTLLEKSWTLALFVASVISSAWWPTMPDWRWLLLGIITTGSIIKLRRGLISIGVIVGFMVVIVHGNIMEYQRQALFQAGE   80
consensus                                     !!!******!**!***!*!***!!**!*!*!**!**!********!*!****!***********!!*** !***!**!!*

logo
NTDB id 1149 A1552VC RS08405 WP 000173776.1   DIIIKGRVDSFFTQTRYAYEGFVLIHEVNGQTLNKMTRPRIRLSAPLLLQPNDRVEFSVTLKPIVGRLNQTGFDLEAHYM  160
NTDB id 1396 DSB67 RS04755 WP 010649088.1     NITINGKVDSPFTQISHGYEGIAQINQVNSQNLLPFLKPKIRLITAFPLPVNSEFTTQVTIKPILGLKNEAGFDAEKQAV  160
NTDB id 203748 K04M3 RS04960 WP 086046605.1  NITIIGKVDSPFTQISHGYEGIVAIEAVNSQTLLPFLKPKIRLITPFPLDVNSEFTTSISLKPITGLRNEAGFDAEKHAM  160
NTDB id 1295 VP RS04795 WP 005481856.1        NSTIIGRVDSSFTQISHGYEGVVAIKQVNSHTLLPFLKPKVRLITPFPLAVNSEFTTNVLIKPIIGLRNEAGFDAEKQSM  160
consensus                                     ***!*!*!!!*!!!****!!!***! *!!***!*****!**!!*****! *!*********!!!*!**!**!!!*!****

logo
NTDB id 1149 A1552VC RS08405 WP 000173776.1   AQSVVARAVVKPDTAYQIVQESGIRSSLFFELEQLTHTSPYQGLILALTFGERKGIDEQEWQALRNSGLIHLVAISGLHI  240
NTDB id 1396 DSB67 RS04755 WP 010649088.1     GKGIVARAVTPDDAKWLIRTYSSFRQQIITAVDTHIAELDHFPLISALAFSDRSLLAKQDWQSLRDSGLLHLVSISGLHI  240
NTDB id 203748 K04M3 RS04960 WP 086046605.1  GKNIIARAVVNKDAQWIVRSNVSLRQSIIADVADDVSSLHHFSLISALVFADRSWLSKEDWQALRDSGLLHLVSISGLHI  240
NTDB id 1295 VP RS04795 WP 005481856.1        GSGVVARAVVTKDSYWVIRTSSSWREAIIQTVERDISRLEHFALIKALAFADRTGLTKEDWQSLRDSGLLHLVSISGLHI  240
consensus                                     *****!!!!* *!* ***** ** !**** *** *********!!*!!*!**!***** *!! !!*!!!*!!!*!!!!!!

logo
NTDB id 1149 A1552VC RS08405 WP 000173776.1   GIAFSVGYFLGLGMMRFHAQLLWSPFVCGALLAVLYAWLAGFTLPTQRALIMCLLNVALIMLAFPLSALKRILLTLVAVL  320
NTDB id 1396 DSB67 RS04755 WP 010649088.1     GMAFAFGMSLGFVIRLLFPKFVHLPSAVGLLAALVYAWLADFSLPTTRAFSVCVIYLVLKAALVHWSPWRVLLLAVSIQL  320
NTDB id 203748 K04M3 RS04960 WP 086046605.1  GMAFTFGLVVGGTVRYLLPQYQLLPSLYGLIFAVAYAWLADFSLPTTRAVSVCVVYVLLKYTLVHWTSWRVLLLAVSLQL  320
NTDB id 1295 VP RS04795 WP 005481856.1        GMALTFGLALGGLIRLAMPRYWFLPSVSGLAFAIVYAWLADFSLPTTRAVSVCIIYIALKYWLVHWSPWRVLLLAVALQL  320
consensus                                     !*!***!* *!*************!** !***!**!!!!!*!*!!!*!!***!*****!** **********!!*****!

logo
NTDB id 1149 A1552VC RS08405 WP 000173776.1   LWSPFASLSNSFWMSFLAVAIVLYQLASQSQRQ....VWWKALLWAQVFLVCLMAPVTAYFFGGLSVTAVLYNLVFIPWF  396
NTDB id 1396 DSB67 RS04755 WP 010649088.1     FIEPFASFTMSFWLSYLSVVAVLLAVNVVQQRRGNRQTKLSSLLKIQLVLTLLIVPISGAFFSGTSLVSIAYNLVFIPWF  400
NTDB id 203748 K04M3 RS04960 WP 086046605.1  LVQPFASYSMSFWLSYLSVCAVLFAINLIRHQRGGWKARLKALLLTQLMLSALIVPVSGHFFSGFSLSSIAYNLVFIPWF  400
NTDB id 1295 VP RS04795 WP 005481856.1        FFQPFASFSLSFWLSYLSVGAVLFAVNTVQDSKEGRLGKLRILLLTQLILSLLIVPISGYFFSGFSWSSLVYNLVFIPWF  400
consensus                                       *!!!!***!!!*!*!*!**!!**** ******** *****!!**!**!**!**!****!!*!*!*****!!!!!!!!!

logo
NTDB id 1149 A1552VC RS08405 WP 000173776.1   SLVIVPALFLGLLLMVVWPSVAAAYWPWVDWTFLPLDWALQFADVGWWVVPSKVQGVVAASVAILLLYRFMSLKACSLLL  476
NTDB id 1396 DSB67 RS04755 WP 010649088.1     GFLVVPLMFLALIVTPLSFQLAGMLWQLVDWVLLPLTWSLQFAVGSWHFVSLPLTLTILAVAICGLLRRFLNRGSLVTLV  480
NTDB id 203748 K04M3 RS04960 WP 086046605.1  GFIVVPLMFLALFSSLFLEMIAKPLWHLVDWSLQPLSTSIQYAVGSWQPISMEMTMLVMVIVVWLIFQRFMSQYAWYLLL  480
NTDB id 1295 VP RS04795 WP 005481856.1        GFVVVPIMFAALIASLLFPMLATVLWYLLDIFLVPLSWSVRYAIGTWQPISAEWTFVIAVVSAVLVSRHVMPRYVWMFVC  480
consensus                                     ****!!**!**!*********!***! **!****!!******!***!************ ********************
```

```
logo

NTDB id 1149 A1552VC RS08405 WP 000173776.1   GMI.GLWWWFPSLTPLWRMDVLDVGHGLAIVIEQDERAIVYDTGSSWPGGSYVQSVIEPMLQQRGLRQVDGVILSHLDND   555
NTDB id 1396 DSB67 RS04755 WP 010649088.1     MLVTGVALFYERTTNSWRVDVLDVGHGLAVLIEKHGKVALYDTGKAWNSGSIAQQVISPVLHRRGFGTIDMFIISHADSD   560
NTDB id 203748 K04M3 RS04960 WP 086046605.1  GIV.ISIKFAAEYEPHWRIDVLDVGHGLAVVVEKDDKVLLYDTGKAWQSGSIAEQVVTPVLHQRGYESIDTLILSHSDND   559
NTDB id 1295 VP RS04795 WP 005481856.1        VIVVMTGLFPKQYNQTWRIDVLDVGHGLAVLVEKEGRVLLYDTGKAWQNGSIAEQVITPVLHRRGYSSVDTMILSHADND   560
consensus                                     *** * ****  ****!!*!!!!!!!!!!!***!*******!!!!**!**!!** *!**!*!* !!* **!**!*!!*!*!

logo

NTDB id 1149 A1552VC RS08405 WP 000173776.1   HAGDWQGLAERWQPNWIRASQLGTEFMPCIRGESWQWQSLHFTVLWPPQAVSRAYNQHSCVIRMTDTQSNHSVLLSGDVT   635
NTDB id 1396 DSB67 RS04755 WP 010649088.1     HAGGRQYIEQHFSPAQNFSSQNYADYQSCIAGERWYWQALYFEVLWPPKQVNRAYNPHSCVVRVVDKESGFKLLLTGDIE   640
NTDB id 203748 K04M3 RS04960 WP 086046605.1  HAGGRFFIEDAFSPQRKLSSQFFIEYEPCTRGDQWKWQGLNMEVLWPPALVQRAYNPHSCVLRLTDPISNFSMLFTGDIE   639
NTDB id 1295 VP RS04795 WP 005481856.1        HAGGRKVIEQYFSPKHKLSSQSFLHYQPCIAAEKWKWQGLNMEVLWPPKPVVRAYNPHSCVISLEDPSTGFKMLFTGDIE   640
consensus                                     !!!******* **!* ***!! ******!* ***!*!!*!* *!!!!!* !*!!!!*!!!!****!* * * *! *!!**

logo

NTDB id 1149 A1552VC RS08405 WP 000173776.1   AMGEWLLARDGAQLQSEVMIVPHHGSKTSSTAEFIAQVNPKLAIASVAKDNRWNLPNPQVVARYQAQQVEWLDTGHAGQI   715
NTDB id 1396 DSB67 RS04755 WP 010649088.1     AVSEWILMREPNKLESDVMLVPHHGSKSSSNPKFVQIVSPTLAIASLAKSNQWGMPAENVLSAYQEANAYWLDTGSHGQV   720
NTDB id 203748 K04M3 RS04960 WP 086046605.1  AISEWILLREPGKLQSDVMLVPHHGSKSSSNPRFIEAVSPSVAVASLAKNNRWGMPAENVVASYRKLGVTWLDTGEGGQV   719
NTDB id 1295 VP RS04795 WP 005481856.1        AISEWILLREPEKLRSDVMLVPHHGSKSSSNPKFINVVEPSLAIASTAKLNQWGMPAPEVVQAYTDSGVSWLDTGSDGQI   720
consensus                                     !**!!*!*!****!*!*!!*!!!!!!!*!!***!***!*!**!*!!*!! ! !**!***!***!** ***!!!!!**!!*

logo

NTDB id 1149 A1552VC RS08405 WP 000173776.1   SLFFYLDQLDWFTQRSLGWQPWYRQMLRKGVE   747
NTDB id 1396 DSB67 RS04755 WP 010649088.1     SVFIERDNWYFEAKRSETFEPWYRQMLRKRVE   752
NTDB id 203748 K04M3 RS04960 WP 086046605.1  SFFIHRDNWRSETKRSDTFEPWYRQMLRKGVE   751
NTDB id 1295 VP RS04795 WP 005481856.1        TILLDGNNWRFESKRRETIEPWYRQMLRNRVE   752
consensus                                     *************!*****!!!!!!!!!* !!
```

X non conserved

X similar

X $\geq$ 50% conserved