```
logo

NTDB id 1356 HI 0297 AAC21961.1          .MTKKLFYYQASNPLNQKQKGSIIADTKQQAHFQLISRGLTHIKLQQNWQFGAKPKNSEISELLNQLATLLQSAIPLKNS   79
NTDB id 1367 NTHI RS01945 WP 011271971.1 .MTKKLFYYQGSNALNQKQKGSIIADTKQQAHFQLISRGLTHIKLQQNWQFGAKPKNSEISELLNQLATLLQSVIPLKNS   79
NTDB id 1050379 ACEWE3 RS04570 WP 006248403.1 MTKIYEFHWQAQSRFGQKQRGKRLATNRDMLENLLLAQGYQHIRISRNFVLSANPKKEEVNSLLSQLALLVNSAMPLKQA   80
NTDB id 1385 A4U84 RS08520 WP 005711777.1 MNNIYEFQWKGRNRFGQKQTGRQLAESREVLEKRLQQKGYSQLSISRHFALPTAPKKEEINQFMQQLALLIQAKIPLKQS   80
consensus                                *** !******* !!!*!***!***** ***!***! ***** *** ***!! !* ****!!! !*****!!!**

logo

NTDB id 1356 HI 0297 AAC21961.1          LQILQQNCTQIVLNEWLERLLQSIESGLAFSQAIEQQGKYLTQQEIQLIQVGEMTGKLAVVCKKIATHRSQSLALQRKLQ   159
NTDB id 1367 NTHI RS01945 WP 011271971.1 LQILQQNCTQIMLNKWLERLLQSIESGLAFSQAIEQQGKYLTQQEIQLIQVGEMTGKLAVVCKKIATHRSQSLALQRKLQ   159
NTDB id 1050379 ACEWE3 RS04570 WP 006248403.1 LSMLLQNCRNIRLYLWLNELIQHIESGYAFSQSLEKLGEFVTNQEIQLIKMGEQSGKLGIMLTNLAESRAKLEKLAKKVK   160
NTDB id 1385 A4U84 RS08520 WP 005711777.1 LVMLLETCQNRTFYRWQQETIRLIEAGFALSVAFKKQGKYINPQEIQLIKMAETSGNLGLILTNIAQRREKSEKLAKKIK   160
consensus                                !**! **!***** *!** ****!!*!*!*!**** *!*****!!!!!! **!**!*!****  *!**!* *  ! *!*

logo

NTDB id 1356 HI 0297 AAC21961.1          KIMLYPSMVLGISLLLTLALLLFIVPQFAEMYSGNNAELPTITAILLSISNFLKQNIGILLFFVLSFFLFYYFYLKRQTW   239
NTDB id 1367 NTHI RS01945 WP 011271971.1 KIMLYPSMVLGISLLLTLALLLFIAPQFAEMYSGNNAELPTITAILLSISNFLKQNIGILLFFVLSFFLFYYFYLKRQTW   239
NTDB id 1050379 ACEWE3 RS04570 WP 006248403.1 KILFYPVIVLLISLALSIGLLVLIVPQFAQLYGSKDKTLPLITDILFTLSECLIEQGTVLLGTLLLAVIFYLFFAKKSRL   240
NTDB id 1385 A4U84 RS08520 WP 005711777.1 KILFYPVFILAISITLSILLLLFIVPQFAELYGSKGKSLPLITEILFSLSHFLQHSILTLIILCVLCFLLIHILNKKTDL   240
consensus                                !!* !! **!*!!**!***!!**!*!!!!**!   * *!! !!*!! **!**!******!***** *********!***

logo

NTDB id 1356 HI 0297 AAC21961.1          FYQKKNQLISITPIFGTIQKLSRLVNFSQSLQIMLQAGVPLNQALDSFLPRTQTWQTKKTLVNDIVLDKEVRSILQWVSQ   319
NTDB id 1367 NTHI RS01945 WP 011271971.1 FHQKKNQLISITPIFGTIQKLSRLVNFSQSLQIMLQAGVPLNQALDSFLPRTQTWQTKKTLVNDMVLDKEVRSILQWVSQ   319
NTDB id 1050379 ACEWE3 RS04570 WP 006248403.1 VAKWKMALWAKMPLFSRIIEQSRIIFFSQNIALMLNAHIPLDVALRSFLSEK.........NDDPILQQEIGTMLNLLQQ   311
NTDB id 1385 A4U84 RS08520 WP 005711777.1 IKRLKFILSHIPILKGIIQYSRIIFFCQNSSLMLASHIRLDTVLHSFLANK.........SDDILLQGSLAITLTYLKQ   311
consensus                                * **!******!****! **!!** !*! ***!!****! **!*!!** ********** !**! ******!****!

logo

NTDB id 1356 HI 0297 AAC21961.1          GYAFSNSVSSDLFPMEAQQMLQIGEQSGKLALMLEHIAENYQEKLNHQIDLLSQMLEPLMMVIIGSLIGIIMMGMYLPIF   399
NTDB id 1367 NTHI RS01945 WP 011271971.1 GYAFSNSVSSDLFPMEAQQMLQIGEQSGKLALMLEHIADNYQEKLNHQIDLLSQMLEPLMMVIIGSLIGIIMMGMYLPIF   399
NTDB id 1050379 ACEWE3 RS04570 WP 006248403.1 GYKFSQGINPNVFGAEMAQMLEVGEKSGNVAKMCEHISEMYQQKLDYQIDILSQLLEPMLMLIMGVIVGTIIVGLYLPIF   391
NTDB id 1385 A4U84 RS08520 WP 005711777.1 GYRLADSLDPKLFPTDMLQMIAIGEQSGKLSPMLQQISDGYQQRLDYQIDILSQLLEPMLMVLMGIIVGTILVGLYLPIF   391
consensus                                !!**********!*** *!!***!!*!!****!***! **!! *! *!!!*!!!*!!!**!***!***! !**!*!!!!!

logo

NTDB id 1356 HI 0297 AAC21961.1          NMGSVIQ   406
NTDB id 1367 NTHI RS01945 WP 011271971.1 NMGSVIQ   406
NTDB id 1050379 ACEWE3 RS04570 WP 006248403.1 DMGALVE   398
NTDB id 1385 A4U84 RS08520 WP 005711777.1 DMGAMIE   398
consensus                                 !! **
```

X non conserved
X similar
X $\geq$50% conserved