```
logo
NTDB id 1385 A4U84 RS08520 WP 005711777.1   MNNIYEFQWKGRNRFGQKQTGRQLAESREVLEKRLQQKGYSQLSISRHFALPTAPKKEEINQFMQQLALLIQAKIPLKQSLVMLL   85
NTDB id 43593 HIB RS02205 WP 015701559.1    .MTKKLFYYQGSNALNQKQKGSIIADTKQQAHFQLISHGLTHIKLQQNWQFGAKPKNSEISELLNQLATLLQSAIPLKNSLQILQ   84
NTDB id 1367 NTHI RS01945 WP 011271971.1    .MTKKLFYYQGSNALNQKQKGSIIADTKQQAHFQLISRGLTHIKLQQNWQFGAKPKNSEISELLNQLATLLQSVIPLKNSLQILQ   84
NTDB id 1356 HI 0297 AAC21961.1             .MTKKLFYYQASNPLNQKQKGSIIADTKQQAHFQLISRGLTHIKLQQNWQFGAKPKNSEISELLNQLATLLQSAIPLKNSLQILQ   84
consensus                                   *****!*****!***!!!*!***!*********!***!***************!!**!!*****!!!*!*!**!!!!*!!**!*

logo
NTDB id 1385 A4U84 RS08520 WP 005711777.1   ETCQNRTFYRWQQETIRLIEAGFALSVAFKKQGKYINPQEIQLIKMAETSGNLGLILTNIAQRREKSEKLAKKIKKILFYPVFIL   170
NTDB id 43593 HIB RS02205 WP 015701559.1    QNCTQIMLNEWLERLLQSIESGLAFSQAIEQQGKYLTQQEIQLIQVGEMTGKLAVVCKKIATHRSQSLALQRKLQKIMLYPSMVL   169
NTDB id 1367 NTHI RS01945 WP 011271971.1    QNCTQIMLNKWLERLLQSIESGLAFSQAIEQQGKYLTQQEIQLIQVGEMTGKLAVVCKKIATHRSQSLALQRKLQKIMLYPSMVL   169
NTDB id 1356 HI 0297 AAC21961.1             QNCTQIVLNEWLERLLQSIESGLAFSQAIEQQGKYLTQQEIQLIQVGEMTGKLAVVCKKIATHRSQSLALQRKLQKIMLYPSMVL   169
consensus                                   **!*******!*******!!*!*!*!*!***!!!!***!!!!!!***!**!*!******!!**!**!**!**!**!!**!!***!

logo
NTDB id 1385 A4U84 RS08520 WP 005711777.1   AISITLSILLLLFIVPQFAELYGSKGKSLPLITEILFSLSHFLQHSILTLIILCVLCFLLIHILNKKTDLIKRLKFIILSHIPIL   255
NTDB id 43593 HIB RS02205 WP 015701559.1    GISLLLTLALLLFIVPQFAEMYSGNNAELPTITAILLSISNFLKQNIGILLFFALSFVLFYYFYLKRQTWFHQKKNQLISITPIF   254
NTDB id 1367 NTHI RS01945 WP 011271971.1    GISLLLTLALLLFIAPQFAEMYSGNNAELPTITAILLSISNFLKQNIGILLFFVLSFFLFYYFYLKRQTWFHQKKNQLISITPIF   254
NTDB id 1356 HI 0297 AAC21961.1             GISLLLTLALLLFIVPQFAEMYSGNNAELPTITAILLSISNFLKQNIGILLFFVLSFFLFYYFYLKRQTWFYQKKNQLISITPIF   254
consensus                                   *!!**!***!!!!!*!!!!!*!******!!*!!*!!*!*!*!!***!**!********!******!*******!****!**!!*

logo
NTDB id 1385 A4U84 RS08520 WP 005711777.1   KGIIQYSRIIFFCQNSSLMLASHIRLDTVLHSFLANK.........SDDILLQGSLATTLTYLKQGYRLADSLDPKLFPTDMLQM   331
NTDB id 43593 HIB RS02205 WP 015701559.1    GTIQKLSRLVNFSQSLQIMLQAGIPLNQALDSFLPRTQTWQTK.TLVNDIILDKEVRSILQWVSQGYAFSDSVSSDLFPMEAQQM   338
NTDB id 1367 NTHI RS01945 WP 011271971.1    GTIQKLSRLVNFSQSLQIMLQAGVPLNQALDSFLPRTQTWQTKKTLVNDMVLDKEVRSILQWVSQGYAFSNSVSSDLFPMEAQQM   339
NTDB id 1356 HI 0297 AAC21961.1             GTIQKLSRLVNFSQSLQIMLQAGVPLNQALDSFLPRTQTWQTKKTLVNDIVLDKEVRSILQWVSQGYAFSNSVSSDLFPMEAQQM   339
consensus                                   **!***!!***!*!****!!*****!***!*!!!*************!**!*******!****!!!***  !****!!!****!!

logo
NTDB id 1385 A4U84 RS08520 WP 005711777.1   IAIGEQSGKLSPMLQQISDGYQQRLDYQIDILSQLLEPMLMVLMGIIVGTILVGLYLPIFDMGAMIE   398
NTDB id 43593 HIB RS02205 WP 015701559.1    LQIGEQSGKLALMLEHIADNYQEKLNHQIDLLSQMLEPLMMVIIGSLIGIIMMGMYLPIFNMGSVIQ   405
NTDB id 1367 NTHI RS01945 WP 011271971.1    LQIGEQSGKLALMLEHIADNYQEKLNHQIDLLSQMLEPLMMVIIGSLIGIIMMGMYLPIFNMGSVIQ   406
NTDB id 1356 HI 0297 AAC21961.1             LQIGEQSGKLALMLEHIAENYQEKLNHQIDLLSQMLEPLMMVIIGSLIGIIMMGMYLPIFNMGSVIQ   406
consensus                                   **!!!!!!!!**!!**!***!!**!**!!!*!!!*!!!**!!**!***!*!**!*!!!!!*!!**!*
```

X non conserved

X similar

X $\geq$ 50% conserved