```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1247 GC085 RS11680 WP 015961431.1      ..........................................................................  0
NTDB id 1270 LPP RS11540 WP 015961431.1        ..........................................MLQKFLSITQNLRLPSICTLCNQFHK....  26
NTDB id 1374 NTHI RS02640 WP 011272045.1       ...........................................................MNFFNFRCIHCRGNLHI...  17
NTDB id 1348 HI 0434 AAC22093.1                ..........................................................MMNFFNFRCIHCRGNLHI...  18
NTDB id 1398 DSB67 RS00645 WP 029388870.1      ..........................................MLSHQWQNIMHRVLSSQCGLCRFPIPHRQT  30
NTDB id 1143324 D5R51 RS00555 WP 162891867.1   ..........................................................................  0
NTDB id 1154 A1552VC RS20525 WP 001884047.1    MPQPCTNTRSCPCPLTCQYNAMVTVSPSISIFIHSANWQDEAHYPDSWLAMLTHWLRKTTAPLLTPECHLCRLALDTNS.  79
consensus                                                                                                  *  **  *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1247 GC085 RS11680 WP 015961431.1      .............MKQLGSCCQYCAYPLSD...DTYLVCGQCVRKRPSFDSAYIAYRFEEPLRSLIHQFKYHNGLYLASF  64
NTDB id 1270 LPP RS11540 WP 015961431.1        .SQLAVCSNCMEFMKQLGSCCQYCAYPLSD...DTYLVCGQCVRKRPSFDSAYIAYRFEEPLRSLIHQFKYHNGLYLASF  102
NTDB id 1374 NTHI RS02640 WP 011272045.1       .AKNGLCSGCQKQIKSFPYC.GHCGAELQY....YAQHCGNCLKQEPSWDKMVIIGHYIEPLSILIHRFKFQNQFWIDRT  91
NTDB id 1348 HI 0434 AAC22093.1                .AKNGLCSGCQKQIKSFPYC.GHCGSELQY....YAQHCGNCLKQEPSWDKMVIIGHYIEPLSILIQRFKFQNQFWIDRT  92
NTDB id 1398 DSB67 RS00645 WP 029388870.1      PNLMRWCDSCFDHLTPIERC.MRCGLKMTEEESQAATECGECLKEPPPWRRLYTLGDYDFPLSQQVQRFKDHGEVWHVGA  109
NTDB id 1143324 D5R51 RS00555 WP 162891867.1   ..........................................................MCVGDYRFPLSDAVHQLKYQRQFWQAPR  28
NTDB id 1154 A1552VC RS20525 WP 001884047.1    ..PFGVCSACQAWLEHGYRC.ARCGLPTLT....PVDQCGGQCLGQPPPWRKLMCVGDYRFPLSDAVHQLKYQRQFWQAPR  152
consensus                                          **** *   **    *   **  *          ******  ********** * *!!* *****!********

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1247 GC085 RS11680 WP 015961431.1      LKQLLLNALPKS.....ALKPDCLIPVPMHPKRLKRRGFNQAAVLTRLLARQLNIPYDLYYCQKIINTASQANLDGEQRR  139
NTDB id 1270 LPP RS11540 WP 015961431.1        LKQLLLNALPKS.....ALKPDCLIPVPMHPKRLKRRGFNQAAVLTRLLARQLNIPYDLYYCQKIINTASQANLDGEQRR  177
NTDB id 1374 NTHI RS02640 WP 011272045.1       LARLLYLAVRDAKRTHQLKLPEAIIPVPLYHFRQWRRGYNQADLLSRQLSRWLDIPNLSNIVKRVKHTYTQRGLSAKDRR  171
NTDB id 1348 HI 0434 AAC22093.1                LARLLYLAVRDAKRTHQLKLPEAIIPVPLYHFRQWRRGYNQADLLSQQLSRWLDIPNLNNIVKRVKHTYTQRGLSAKDRR  172
NTDB id 1398 DSB67 RS00645 WP 029388870.1      LTQLLAERVEQP........APVITSVPVHWQRLLKRGFNQSHILAKHLAHHLDVRYENKVFKRVKNVQSQRGNKKASRE  181
NTDB id 1143324 D5R51 RS00555 WP 162891867.1   LAKLLATQINEP........APLLCSVPLHWRRRWLRGFNQSDLLARELANVLNIEYDHQLFARRRATPHQQGLSKAQRI  100
NTDB id 1154 A1552VC RS20525 WP 001884047.1    LAKLLATQINEP........APLLCSVPLHWRRRWQRGFNQSDLLARELANMLNVEYDHQLFARRRATPHQQGLSKAQRI  224
consensus                                      !**!!   ** *         ** ***!!** *!  **!!*!!***!** !** !***** **   *** * *! **** *!*

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1247 GC085 RS11680 WP 015961431.1      KNLRHAFYVP....PVTYEHVMIVDDLLTTGSTANEIAHTLKNAGVKRVDICCCARAVTKN....  196
NTDB id 1270 LPP RS11540 WP 015961431.1        KNLRHAFYVP....PVTYEHVMIVDDLLTTGSTANEIAHTLKNAGVKRVDICCCARAVTKN....  234
NTDB id 1374 NTHI RS02640 WP 011272045.1       QNLKNAFSLVVSKNEFPYRRVALVDDVITTGSTLNEISKLLRKLGVEEIQVWGLARA........  228
NTDB id 1348 HI 0434 AAC22093.1                QNLKNAFSLAVSKNEFPYRRVALVDDVITTGSTLNEISKLLRKLGVEEIQVWGLARA........  229
NTDB id 1398 DSB67 RS00645 WP 029388870.1      QNLQGAFALRG...EVDFSHVAIVDDVVTTGSTVRQLCHLLLEVGVESIDIYCICRTPAPGSL..  241
NTDB id 1143324 D5R51 RS00555 WP 162891867.1   HNLRDAFVLNH...LPKHQRIAIVDDVVTTGSTIRHLCDLLLDVGVQSIDIYCICRTPEPKDSHG  162
NTDB id 1154 A1552VC RS20525 WP 001884047.1    HNLRDAFVLNH...PPNQPHVAIVDDVVTTGSTIRHLCDLLLDVGVQSIDIYCICRTPEPKDSHG  286
consensus                                       !!* !! *        * ****!!!**!!!!!****  *!* *!!  *******!*
```

X non conserved

X similar

X $\geq$ 50% conserved