logo

```
NTDB id 1154 A1552VC RS20525 WP 001884047.1  MPQPCTNTRSCPCPLTCQYNAMVTVSPSISIFIHSANWQDEAHYPDSWLAMLTHWLRKTTAPLLTPECHLCRLALDTNS.    79
NTDB id 1398 DSB67 RS00645 WP 029388870.1    ..............................................MLSHQWQNIMHRVLSSQCGLCRFPIPHRQT    30
NTDB id 58828 NGK50 RS22210 WP 017384146.1   ..................................................MLTVPGLCWLCRMPLAMS..    18
NTDB id 1434 BW25113 RS17685 WP 001333371.1  ..................................................MLTVPGLCWLCRMPLALG..    18
NTDB id 1458 ASU2 RS11390 WP 005624668.1     ..................................................MNYWGFRCIHCRKPLAIA..    18
NTDB id 1374 NTHI RS02640 WP 011272045.1     ..................................................MNFFNFRCIHCRGNLHIA..    18
NTDB id 1348 HI 0434 AAC22093.1              ..................................................MMNFFNFRCIHCRGNLHIA..    19
consensus                                                                                      *  *   ! *!! ** **
```

logo

```
NTDB id 1154 A1552VC RS20525 WP 001884047.1  ..PFGVCSACQAWLEH.GYRCARCGLPTLT....PVDQCGQCLGQPPPWRKLMCVGDYRFPLSDAVHQLKYQRQFWQAPR   152
NTDB id 1398 DSB67 RS00645 WP 029388870.1    PNLMRWCDSCFDHLTP.IERCMRCGLKMTEEESQAATECGECLKEPPPWRRLYTLGDYDFPLSQQVQRFKDHGEVWHVGA   109
NTDB id 58828 NGK50 RS22210 WP 017384146.1   ..AWGVCSVCTRALGY.LKGCPQCGLPAVS....QTLPCGRCLKKAPPWSALVAVDDYVLPLSRLVHQFKFSSQTALAQP    91
NTDB id 1434 BW25113 RS17685 WP 001333371.1  ..HWGICSVCSRATRTDKTLCPQCGLPATH....SHLPCGRCLQKPPPWQRLVTVADYAPPLSPLIHQLKFSRRSEIASA    92
NTDB id 1458 ASU2 RS11390 WP 005624668.1     ..QHTICSSCYRKIEK.SCYCGCCGALLPE....NQLYCGNCLRNEPKWHRIVQIAYYKPPLSDWIHRFKFQDQFWLDQG    91
NTDB id 1374 NTHI RS02640 WP 011272045.1     ..KNGLCSGCQKQIKS.FPYCGHCGAELQY....YAQHCGNCLKQEPSWDKMVIIGHYIEPLSILIHRFKFQNQFWIDRT    91
NTDB id 1348 HI 0434 AAC22093.1              ..KNGLCSGCQKQIKS.FPYCGHCGSELQY....YAQHCGNCLKQEPSWDKMVIIGHYIEPLSILIQRFKFQNQFWIDRT    92
consensus                                      **!* ! * *      !* !!* *          !!*!!** !*! *** ***!  !!! *****!** ****
```

logo

```
NTDB id 1154 A1552VC RS20525 WP 001884047.1  LAKLLATQIN........EPAPLLCSVPLHWRRRWQRGFNQSDLLARELANNMLNVEYDHQLFARRRATPHQQGLSKAQRI   224
NTDB id 1398 DSB67 RS00645 WP 029388870.1    LTQLLAERVE........QPAPVITSVPVHWQRLLKRGFNQSHILAKHLAHHLDVRYENKVFKRVKNVQSQRGNKKASRE   181
NTDB id 58828 NGK50 RS22210 WP 017384146.1   LARLLLLAVLQARRTRGLPPVDTLVNVPLFQRRHWRRGYNQSDLLCRPLAHWLGCRYPASALKRTHATAVQHRLNARSRK   171
NTDB id 1434 BW25113 RS17685 WP 001333371.1  LSRLLLLEVLHARRTTGLQLPDRIVSVPLWQRRHWRRGFNQSDLLCQPLSRWLHCQWDSEAVTRTRATATQHFLSARLRK   172
NTDB id 1458 ASU2 RS11390 WP 005624668.1     LARLLLLAIKQAQRTHQLELPEVIFPVPLFWHREWQRGFNQAQLLAEHLSNWLNTPLDNVSLKRVRATYSQRQLTAYERK   171
NTDB id 1374 NTHI RS02640 WP 011272045.1     LARLLYLAVRDAKRTHQLKLPEAIIPVPLYHFRQWRRGYNQADLLSRQLSRWLDIPNLSNIVKRVKHTYTQRGLSAKDRR   171
NTDB id 1348 HI 0434 AAC22093.1              LARLLYLAVRDAKRTHQLKLPEAIIPVPLYHFRQWRRGYNQADLLSQQLSRWLDIPNLNNIVKRVKHTYTQRGLSAKDRR   172
consensus                                    !**!! ***  ****  * *** ** !!** ! **!!*!!***! * !* *! * **  ***!**** *!******* !*
```

logo

```
NTDB id 1154 A1552VC RS20525 WP 001884047.1  HNLRDAFVLNHPPN...QPHVAIVDDVVTTGSTIRHLCDLLLDVGVQSIDIYCICRTPEPKDSHG   286
NTDB id 1398 DSB67 RS00645 WP 029388870.1    QNLQGAFALRGEVD...FSHVAIVDDVVTTGSTVRQLCHLLLEVGVESIDIYCICRTPAPGSL..   241
NTDB id 58828 NGK50 RS22210 WP 017384146.1   RNLKNAFRLELPVN...GLHIAIVDDVVTTGSTVAELSRLLLQSGAASVQVWCLCRTL.......   226
NTDB id 1434 BW25113 RS17685 WP 001333371.1  RNLKNAFRLELPVQ...GRHMVIVDDVVTTGSTVAEIAQLLLRNGAAAVQVWCLCRTL.......   227
NTDB id 1458 ASU2 RS11390 WP 005624668.1     RNLKGAFRYTP...NRAYHRVAIIDDVVTTGSTLNAICAELLKQGVQHIQVWTLARA........   225
NTDB id 1374 NTHI RS02640 WP 011272045.1     QNLKNAFSLVVSKNEFPYRRVALVDDVITTGSTLNEISKLLRKLGVEEIQVWGLARA........   228
NTDB id 1348 HI 0434 AAC22093.1              QNLKNAFSLAVSKNEFPYRRVALVDDVITTGSTLNEISKLLRKLGVEEIQVWGLARA........   229
consensus                                     !!**!!  * *   *   * *****!!!*!!!!!* **   *!***!*  ********!*
```

X non conserved
X similar
X ≥ 50% conserved