logo

```
NTDB id 1154 A1552VC RS20525 WP 001884047.1  MPQPCTNTRSCPCPLTCQYNAMVTVSPSISIFIHSANWQDEAHYPDSWLAMLTHWLRKTTAPLLTPECHLCRLALDTNS.    79
NTDB id 1398 DSB67 RS00645 WP 029388870.1    ..................................................MLSHQWQNIMHRVLSSQCGLCRFPIPHRQT    30
NTDB id 51171 K5693 RS01690 WP 000958732.1   ..........................................................MLTVPGLCWLCRMPLALSH.    19
NTDB id 1434 BW25113 RS17685 WP 001333371.1  ..........................................................MLTVPGLCWLCRMPLALGH.    19
NTDB id 1458 ASU2 RS11390 WP 005624668.1     ..........................................................MNYWGFRCIHCRKPLAIAQ.    19
NTDB id 1374 NTHI RS02640 WP 011272045.1     ..........................................................MNFFNFRCIHCRGNLHIAK.    19
NTDB id 1348 HI 0434 AAC22093.1              ..........................................................MMNFFNFRCIHCRGNLHIAK.    20
consensus                                                                                              *  *    ! *!! ** **
```

logo

```
NTDB id 1154 A1552VC RS20525 WP 001884047.1  ..PFGVCSACQAWLE.HGYRCARCGLPTLT....PVDQCGQCLGQPPPWRKLMCVGDYRFPLSDAVHQLKYQRQFWQAPR   152
NTDB id 1398 DSB67 RS00645 WP 029388870.1    PNLMRWCDSCFDHLT.PIERCMRCGLKMTEEESQAATECGECLKEPPPWRRLYTLGDYDFPLSQQVQRFKDHGEVWHVGA   109
NTDB id 51171 K5693 RS01690 WP 000958732.1   ...WGICSVCARAVRQRVSLCPQCGLPAAH....PSLPCGRCLQKPPPWQRLVSVSDYTPPLSLLVHQLKFTRRSEIAAA    92
NTDB id 1434 BW25113 RS17685 WP 001333371.1  ...WGICSVCSRATRTDKTLCPQCGLPATH....SHLPCGRCLQKPPPWQRLVTVADYAPPLSPLIHQLKFSRRSEIASA    92
NTDB id 1458 ASU2 RS11390 WP 005624668.1     ...HTICSSCYRKIE.KSCYCGCCGALLPE....NQLYCGNCLRNEPKWHRIVQIAYYKPPLSDWIHRFKFQDQFWLDQG    91
NTDB id 1374 NTHI RS02640 WP 011272045.1     ...NGLCSGCQKQIK.SFPYCGHCGAELQY....YAQHCGNCLKQEPSWDKMVIIGHYIEPLSILIHRFKFQNQFWIDRT    91
NTDB id 1348 HI 0434 AAC22093.1              ...NGLCSGCQKQIK.SFPYCGHCGSELQY....YAQHCGNCLKQEPSWDKMVIIGHYIEPLSILIQRFKFQNQFWIDRT    92
consensus                                      **!* ! * **     !* !!* *         !!*!!***!*! *** ***!  !!! *****!** ****   *
```

logo

```
NTDB id 1154 A1552VC RS20525 WP 001884047.1  LAKLLATQINE........PAPLLCSVPLHWRRRWQRGFNQSDLLARELANMLNVEYDHQLFARRRATPHQQGLSKAQRI   224
NTDB id 1398 DSB67 RS00645 WP 029388870.1    LTQLLAERVEQ........PAPVITSVPVHWQRLLKRGFNQSHILAKHLAHHLDVRYENKVFKRVKNVQSQRGNKKASRE   181
NTDB id 51171 K5693 RS01690 WP 000958732.1   LARLLLQEVLMARRSTGLQLPDRIVSVPLWSRRHWRRGFNQSDLLCQPLAHWLGCAWDSQTITRVRATATQHHLSARLRK   172
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  HNLRDAFVLNHPP...NQPHVAIVDDVVTTGSTIRHLCDLLLDVGVQSIDIYCICRTPEPKDSHG   286
NTDB id 1398 DSB67 RS00645 WP 029388870.1    QNLQGAFALRGEV...DFSHVAIVDDVVTTGSTVRQLCHLLLEVGVESIDIYCICRTPAPGSL..   241
NTDB id 51171 K5693 RS01690 WP 000958732.1   RNLKNAFRLELPV...QGLHMVIVDDVVTTGSTVAEIAQLLLRNGAATVQVWCLCRTL.......   227
NTDB id 1434 BW25113 RS17685 WP 001333371.1  RNLKNAFRLELPV...QGRHMVIVDDVVTTGSTVAEIAQLLLRNCAAAVQVWCLCRTL.......   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