

```
NTDB id 583 DLJ51 RS09560 WP 002962590.1      MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQDGERQADFVNVVFWGKLAESLVSYAGKGSLVSLDGEIRTR  80
NTDB id 498 SM12261 RS01980 WP 000282464.1    MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGKLAESLASYATKGSLISVDGELRTR  80
NTDB id 526 SMSK321 RS08825 WP 000282440.1    MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR  80
NTDB id 158 SP RS09595 WP 000282442.1         MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR  80
NTDB id 268 KZH43 RS08520 WP 000282467.1      MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR  80
NTDB id 227 SPD RS09110 WP 000282467.1        MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR  80
NTDB id 193 SPR RS08685 WP 000282467.1        MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR  80
NTDB id 331331 EJF26 RS00960 WP 000609591.1   MINNVVLVGRMTRDAELRYTPSNVAVATFTLAVNRTFKSQNGEREADFINVVMWRQQAENLANWAKKGSLIGITGRIQTR  80
NTDB id 624 LCA RS00040 WP 011373726.1        MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR  80
NTDB id 113 BSU 40900 NP 391970.1             MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSGEREADFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR  80
NTDB id 112 BSU 36310 NP 391512.2             MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASGEIEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR  80
consensus                                     !*!*!***!!*!********!*****!*****!!!!*******!***!!**!***!***!!*******!!!!****!***!!
```



```
NTDB id 583 DLJ51 RS09560 WP 002962590.1      HYEK.DGQTHYVTEILAQSFQLLESRAQRALRENNGASD.....................................................  118
NTDB id 498 SM12261 RS01980 WP 000282464.1    RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQD.....................................................  118
NTDB id 526 SMSK321 RS08825 WP 000282440.1    RFEK.NGQMNYVAEVLVTGFQLLESRAQRAMRENNAGQD.....................................................  118
NTDB id 158 SP RS09595 WP 000282442.1         RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQD.....................................................  118
NTDB id 268 KZH43 RS08520 WP 000282467.1      RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQD.....................................................  118
NTDB id 227 SPD RS09110 WP 000282467.1        RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQD.....................................................  118
NTDB id 193 SPR RS08685 WP 000282467.1        RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQD.....................................................  118
NTDB id 331331 EJF26 RS00960 WP 000609591.1   SYDNQQGQRIYVTEVVADNFQMLESRSVREGHTGGAYSAP..................TASYTAPTQS...VPDFSRDENP  140
NTDB id 624 LCA RS00040 WP 011373726.1        NYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ.......QSGFTSPQQTGNAPAANNTQADP  153
NTDB id 113 BSU 40900 NP 391970.1             NYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSFNDDP  155
NTDB id 112 BSU 36310 NP 391512.2             SYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.....................................................  113
consensus                                     **** *!****!*!**************************
```



```
NTDB id 583 DLJ51 RS09560 WP 002962590.1      ....LTDLVLEEEELPF   131
NTDB id 498 SM12261 RS01980 WP 000282464.1    ....LADLVLEEEELPF   131
NTDB id 526 SMSK321 RS08825 WP 000282440.1    ....LADLVLEEEELPF   131
NTDB id 158 SP RS09595 WP 000282442.1         ....LADLVLEEEELPF   131
NTDB id 268 KZH43 RS08520 WP 000282467.1      ....LADLVLEEEELPF   131
NTDB id 227 SPD RS09110 WP 000282467.1        ....LADLVLEEEELPF   131
NTDB id 193 SPR RS08685 WP 000282467.1        ....LADLVLEEEELPF   131
NTDB id 331331 EJF26 RS00960 WP 000609591.1   FG.ATNPLDISDDDLPF   156
NTDB id 624 LCA RS00040 WP 011373726.1        FANNGQAIDISDDDLPF   170
NTDB id 113 BSU 40900 NP 391970.1             FANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2             ................   113
consensus                                         **************
```

X non conserved
X similar
X ≥ 50% conserved