```
logo

NTDB id 498 SM12261 RS01980 WP 000282464.1   MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGKLAESLASYATKGSLISVDGELRTRRFEK.   84
NTDB id 526 SMSK321 RS08825 WP 000282440.1   MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTRRFEK.   84
NTDB id 158 SP RS09595 WP 000282442.1        MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTRRFEK.   84
NTDB id 268 KZH43 RS08520 WP 000282467.1     MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTRRFEK.   84
NTDB id 227 SPD RS09110 WP 000282467.1       MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTRRFEK.   84
NTDB id 193 SPR RS08685 WP 000282467.1       MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTRRFEK.   84
NTDB id 583 DLJ51 RS09560 WP 002962590.1     MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQDGERQADFVNVVFWGKLAESLVSYAGKGSLVSLDGEIRTRHYEK.   84
NTDB id 409 SMU RS08940 WP 002263454.1       MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQDGEKQADFVNVVLWGRLAETIASYGSKGSLISLDGELRTRKYEK.   84
NTDB id 624 LCA RS00040 WP 011373726.1       MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLVGVDGRLQTRNYENQ   85
NTDB id 112 BSU 36310 NP 391512.2            MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASGEIEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTRSYENE   85
NTDB id 273845 RK98 RS10580 WP 000934774.1   MLNRTVLVGRLTKDPELRSTPNGVNVGTFTLAVNRTFTNAQGEREADFINVVVFKKQAENVKNYLSKGSLAGVDGRLQTRNYENK   85
NTDB id 113 BSU 40900 NP 391970.1            MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSGEREADFINCVTWRRQAENVANFLKKGSLAGVDGRLQTRNYENQ   85
consensus                                    !*!*****!!!* **** *! ****!** **!!!!*** **!***!!**!*******!!********!!!!****!***!!**!*
```

```
logo

NTDB id 498 SM12261 RS01980 WP 000282464.1   NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQDL.......................................ADLVLEEEEL   129
NTDB id 526 SMSK321 RS08825 WP 000282440.1   NGQMNYVAEVLVTGFQLLESRAQRAMRENNAGQDL.......................................ADLVLEEEEL   129
NTDB id 158 SP RS09595 WP 000282442.1        NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQDL.......................................ADLVLEEEEL   129
NTDB id 268 KZH43 RS08520 WP 000282467.1     NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQDL.......................................ADLVLEEEEL   129
NTDB id 227 SPD RS09110 WP 000282467.1       NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQDL.......................................ADLVLEEEEL   129
NTDB id 193 SPR RS08685 WP 000282467.1       NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQDL.......................................ADLVLEEEEL   129
NTDB id 583 DLJ51 RS09560 WP 002962590.1     DGQTHYVTEILAQSFQLLESRAQRALRENNGASDL.......................................TDLVLEEEEL   129
NTDB id 409 SMU RS08940 WP 002263454.1       DGVTHFVTEVLGHSFQLLESRAQRAMRENNSENDL.......................................ADLVLEEEEL   129
NTDB id 624 LCA RS00040 WP 011373726.1       QGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSN..GSQQSGFTSPQQTGNAPAANNTQADPFANNGQAIDISDDDL   168
NTDB id 112 BSU 36310 NP 391512.2            EGVNVYVTEVLADTVRFMDPKPREKAAD..............................................................   113
NTDB id 273845 RK98 RS10580 WP 000934774.1   DGQRVFVTEVVADSVQFLEPKNNNQQQNNNYQQQRQT.......QTGNNPFDN........NADSIE................DL   139
NTDB id 113 BSU 40900 NP 391970.1            QGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSFNDDPFANDGKPIDISDDDL   170
consensus                                    *!*  *!*!***  ********************                                          **********
```

```
logo

NTDB id 498 SM12261 RS01980 WP 000282464.1   PF   131
NTDB id 526 SMSK321 RS08825 WP 000282440.1   PF   131
NTDB id 158 SP RS09595 WP 000282442.1        PF   131
NTDB id 268 KZH43 RS08520 WP 000282467.1     PF   131
NTDB id 227 SPD RS09110 WP 000282467.1       PF   131
NTDB id 193 SPR RS08685 WP 000282467.1       PF   131
NTDB id 583 DLJ51 RS09560 WP 002962590.1     PF   131
NTDB id 409 SMU RS08940 WP 002263454.1       PF   131
NTDB id 624 LCA RS00040 WP 011373726.1       PF   170
NTDB id 112 BSU 36310 NP 391512.2            ..   113
NTDB id 273845 RK98 RS10580 WP 000934774.1   PF   141
NTDB id 113 BSU 40900 NP 391970.1            PF   172
consensus                                    **
```

X non conserved
X similar
X ≥ 50% conserved