logo

```
NTDB id 1390 A4U84 RS00055 WP 021115958.1    MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYVEGKLKTR   85
NTDB id 498 SM12261 RS01980 WP 000282464.1   ..MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GE..READFVNMVLWGKLAESLASYATKGSLISVDGELRTR   80
NTDB id 526 SMSK321 RS08825 WP 000282440.1   ..MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GE..READFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 158 SP RS09595 WP 000282442.1        ..MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GE..READFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 268 KZH43 RS08520 WP 000282467.1     ..MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GE..READFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 227 SPD RS09110 WP 000282467.1       ..MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GE..READFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 193 SPR RS08685 WP 000282467.1       ..MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GE..READFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 583 DLJ51 RS09560 WP 002962590.1     ..MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQD.GE..RQADFVNVVFWGKLAESLVSYAGKGSLVSLDGEIRTR   80
NTDB id 409 SMU RS08940 WP 002263454.1       ..MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQD.GE..KQADFVNVVLWGRLAETIASYGSKGSLISLDGELRTR   80
NTDB id 112 BSU 36310 NP 391512.2            ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNAS.GE..IEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR   80
NTDB id 113 BSU 40900 NP 391970.1            ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQS.GE..READFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   80
NTDB id 22265 SAG RS05625 WP 000609377.1    ..MINNIVLVGRMTKDAELRYTPSNQAVATFSLAVNRNFKNQS.GE..READFINCVIWRQQAENLANWAKKGALVGITGRIQTR   80
NTDB id 624 LCA RS00040 WP 011373726.1       ..MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNAN.GD..READFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR   80
consensus                                      **!*****!***  *** ** * **!*  **!****** *  !*  **************!!****** !!******!***!!
```

logo

```
NTDB id 1390 A4U84 RS00055 WP 021115958.1    KWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGS.GWNQAPAQ.TNYNQGGYSDNYAQNNNFNGGNAT.....RPQPAQKP  163
NTDB id 498 SM12261 RS01980 WP 000282464.1   RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ...............................................  117
NTDB id 526 SMSK321 RS08825 WP 000282440.1   RFEK.NGQMNYVAEVLVTGFQLLESRAQRAMRENNAGQ...............................................  117
NTDB id 158 SP RS09595 WP 000282442.1        RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ...............................................  117
NTDB id 268 KZH43 RS08520 WP 000282467.1     RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ...............................................  117
NTDB id 227 SPD RS09110 WP 000282467.1       RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ...............................................  117
NTDB id 193 SPR RS08685 WP 000282467.1       RFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ...............................................  117
NTDB id 583 DLJ51 RS09560 WP 002962590.1     HYEK.DGQTHYVTEILAQSFQLLESRAQRALRENNGAS...............................................  117
NTDB id 409 SMU RS08940 WP 002263454.1       KYEK.DGVTHFVTEVLGHSFQLLESRAQRAMRENNSEN...............................................  117
NTDB id 112 BSU 36310 NP 391512.2            SYENEEGVNVYVTEVLADTVRFMDPKPREKAAD....................................................  113
NTDB id 113 BSU 40900 NP 391970.1            NYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQN.....DNPFGGNQNNQRRNQGNSFNDDP  155
NTDB id 22265 SAG RS05625 WP 000609377.1    NYENQQGQRIYVTEVVAENFQLLESRNSQQQTNQSGNS............................................SNS  121
NTDB id 624 LCA RS00040 WP 011373726.1       NYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ............QSGFTSPQQTGNAPAANNTQADP  153
consensus                                    **** *!*  ***!**   ******************
```

logo

```
NTDB id 1390 A4U84 RS00055 WP 021115958.1    AAQAEPPMDNFDDDIPF   180
NTDB id 498 SM12261 RS01980 WP 000282464.1   ...DLADLVLEEEELPF   131
NTDB id 526 SMSK321 RS08825 WP 000282440.1   ...DLADLVLEEEELPF   131
NTDB id 158 SP RS09595 WP 000282442.1        ...DLADLVLEEEELPF   131
NTDB id 268 KZH43 RS08520 WP 000282467.1     ...DLADLVLEEEELPF   131
NTDB id 227 SPD RS09110 WP 000282467.1       ...DLADLVLEEEELPF   131
NTDB id 193 SPR RS08685 WP 000282467.1       ...DLADLVLEEEELPF   131
NTDB id 583 DLJ51 RS09560 WP 002962590.1     ...DLTDLVLEEEELPF   131
NTDB id 409 SMU RS08940 WP 002263454.1       ...DLADLVLEEEELPF   131
NTDB id 112 BSU 36310 NP 391512.2            .................   113
NTDB id 113 BSU 40900 NP 391970.1            FANDGKPIDISDDDLPF   172
NTDB id 22265 SAG RS05625 WP 000609377.1    YFGNANKMDISDDDLPF   138
NTDB id 624 LCA RS00040 WP 011373726.1       FANNGQAIDISDDDLPF   170
consensus                                       ** ***********
```

X non conserved
X similar
X $\geq$ 50% conserved