```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1166 A1552VC RS00795 WP 000168289.1  MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
NTDB id 498 SM12261 RS01980 WP 000282464.1   ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNG...EREADFVNMVLWGKLAESLASYATKGSLISV   73
NTDB id 526 SMSK321 RS08825 WP 000282440.1   ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNG...EREADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 158 SP RS09595 WP 000282442.1        ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNG...EREADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 268 KZH43 RS08520 WP 000282467.1     ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNG...EREADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 227 SPD RS09110 WP 000282467.1       ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNG...EREADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 193 SPR RS08685 WP 000282467.1       ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNG...EREADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 583 DLJ51 RS09560 WP 002962590.1     ....MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQDG...ERQADFVNVVFWGKLAESLVSYAGKGSLVSL   73
NTDB id 409 SMU RS08940 WP 002263454.1       ....MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQDG...EKQADFVNVVLWGRLAETIASYGSKGSLISL   73
NTDB id 112 BSU 36310 NP 391512.2            ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG...EIEADYVNCTLWRKTAENTALYCQKGSLVGV   73
NTDB id 113 BSU 40900 NP 391970.1            ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG...EREADFINCVTWRRQAENVANFLKKGSLAGV   73
NTDB id 281598 C5P47 RS05885 WP 032460176.1  ....MINNVVLVGRMTKDAELRYTASQVAVATFTLAVNRRFKEQNG...EREADFINCVIWRQSAENLANWAKKGALIGV   73
NTDB id 624 LCA RS00040 WP 011373726.1       ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANG...DREADFINCVIWRKSAENFANFTKKGSLVGV   73
consensus                                       **!*!***!***  *** **   **!*  **!**********   ****************!!****** !!*****

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1166 A1552VC RS00795 WP 000168289.1  EGQLQTRKWGDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQGGM...NVPA...........QQGSWGQPQQPAK  146
NTDB id 498 SM12261 RS01980 WP 000282464.1   DGELRTRRFEK.NGQMNYVTEVLVTGFQL....LESRAQRAMRENNAGQ.................................  117
NTDB id 526 SMSK321 RS08825 WP 000282440.1   DGELRTRRFEK.NGQMNYVAEVLVTGFQL....LESRAQRAMRENNAGQ.................................  117
NTDB id 158 SP RS09595 WP 000282442.1        DGELRTRRFEK.NGQMNYVTEVLVTGFQL....LESRAQRAMRENNAGQ.................................  117
NTDB id 268 KZH43 RS08520 WP 000282467.1     DGELRTRRFEK.NGQMNYVTEVLVTGFQL....LESRAQRAMRENNAGQ.................................  117
NTDB id 227 SPD RS09110 WP 000282467.1       DGELRTRRFEK.NGQMNYVTEVLVTGFQL....LESRAQRAMRENNAGQ.................................  117
NTDB id 193 SPR RS08685 WP 000282467.1       DGELRTRRFEK.NGQMNYVTEVLVTGFQL....LESRAQRAMRENNAGQ.................................  117
NTDB id 583 DLJ51 RS09560 WP 002962590.1     DGEIRTRHYEK.DGQTHYVTEILAQSFQL....LESRAQRALRENNGAS.................................  117
NTDB id 409 SMU RS08940 WP 002263454.1       DGELRTRKYEK.DGVTHFVTEVLGHSFQL....LESRAQRAMRENNSEN.................................  117
NTDB id 112 BSU 36310 NP 391512.2            SGRIQTRSYENEEGVNVYVTEVLADTVRF....MDPKPREKAAD.......................................  113
NTDB id 113 BSU 40900 NP 391970.1            DGRLQTRNYENQQGQRVFVTEVQAESVQF....LEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQR  144
NTDB id 281598 C5P47 RS05885 WP 032460176.1  TGRIQTRNYENQQGQRVYVTEVVAENFQM....LESRNQQSG...QGNS.................................  115
NTDB id 624 LCA RS00040 WP 011373726.1       DGRLQTRNYENQQGQRVYVTEVVVDNFSL....LESRTTTEQRQGDGASQNFNSNQSNGSQ.......QSGFTSPQQTGN  142
consensus                                    *!***!!**** *!*  ***!***  ***    ***************

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1166 A1552VC RS00795 WP 000168289.1  QHQPMQQSAPQQYSQPQ.YNEPPM.DFDDDIPF   177
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            RNQG.....NSFNDDPFANDGKPIDISDDDLPF   172
NTDB id 281598 C5P47 RS05885 WP 032460176.1  ...S.....QNDNSQPFG.DSNPMDISDDDLPF   139
NTDB id 624 LCA RS00040 WP 011373726.1       APAA.....NNTQADPFANNGQAIDISDDDLPF   170
consensus                                                       ** ***********
```

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