```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 583 DLJ51 RS09560 WP 002962590.1      ....MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQ.DGER..QADFVNVVFWGKLAESLVSYAGKGSLVSL    73
NTDB id 498 SM12261 RS01980 WP 000282464.1    ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQ.NGER..EADFVNMVLWGKLAESLASYATKGSLISV    73
NTDB id 526 SMSK321 RS08825 WP 000282440.1    ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQ.NGER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 158 SP RS09595 WP 000282442.1         ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQ.NGER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 268 KZH43 RS08520 WP 000282467.1      ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQ.NGER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 227 SPD RS09110 WP 000282467.1        ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQ.NGER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 193 SPR RS08685 WP 000282467.1        ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQ.NGER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 112 BSU 36310 NP 391512.2             ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNA.SGEI..EADYVNCTLWRKTAENTALYCQKGSLVGV    73
NTDB id 113 BSU 40900 NP 391970.1             ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQ.SGER..EADFINCVTWRRQAENVANFLKKGSLAGV    73
NTDB id 42017 SPPN RS08845 WP 000609572.1     ....MINNVVLVGRLTKDAELRYTQSNVAVATFTLAVNRTFKSE.NGER..EADFINCVMWRKQAENLANWAKKGALIGI    73
NTDB id 624 LCA RS00040 WP 011373726.1        ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNA.NGDR..EADFINCVIWRKSAENFANFTKKGSLVGV    73
NTDB id 1131 NGFG RS05740 WP 003695064.1      ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL    76
NTDB id 1103 NMB RS07590 WP 002212976.1       ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL    76
NTDB id 1166 A1552VC RS00795 WP 000168289.1   MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI    80
consensus                                        **!*!***!*!*  ***  * *   !*  **!*** **** *!**  **************!! ** ** !!*** *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 583 DLJ51 RS09560 WP 002962590.1      DGEIRTRHYEK.DGQTHYVTEILAQSFQLLESRAQRALRENNGAS.......................................   117
NTDB id 498 SM12261 RS01980 WP 000282464.1    DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.......................................   117
NTDB id 526 SMSK321 RS08825 WP 000282440.1    DGELRTRRFEK.NGQMNYVAEVLVTGFQLLESRAQRAMRENNAGQ.......................................   117
NTDB id 158 SP RS09595 WP 000282442.1         DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.......................................   117
NTDB id 268 KZH43 RS08520 WP 000282467.1      DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.......................................   117
NTDB id 227 SPD RS09110 WP 000282467.1        DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.......................................   117
NTDB id 193 SPR RS08685 WP 000282467.1        DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.......................................   117
NTDB id 112 BSU 36310 NP 391512.2             SGRIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD............................................   113
NTDB id 113 BSU 40900 NP 391970.1             DGRLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGG.....YNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQG   148
NTDB id 42017 SPPN RS08845 WP 000609572.1     TGRIQTRTYDNQQGQRVYVTEVVAENFQLMEFKKDGSQPVV.....................................DN   116
NTDB id 624 LCA RS00040 WP 011373726.1        DGRLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ.......QSGFTSPQQTGNAPAA   146
NTDB id 1131 NGFG RS05740 WP 003695064.1      EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYD..EG.......YGQS..QEAYQRPAQQSRQPAP   141
NTDB id 1103 NMB RS07590 WP 002212976.1       EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYE..EG.......YGQS..QEAYQRPAQQSRQPAS   141
NTDB id 1166 A1552VC RS00795 WP 000168289.1   EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQ.GGMPAQ..GG.......MNVPAQQGSWGQPQQPAKQHQP   150
consensus                                     *! * *!***  *!*  *******  *******   * **  **

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 583 DLJ51 RS09560 WP 002962590.1      ......................DLTDLVLEEEELPF   131
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 112 BSU 36310 NP 391512.2             ....................................   113
NTDB id 113 BSU 40900 NP 391970.1             ............NSFNDDPFANDGKPIDISDDDLPF   172
NTDB id 42017 SPPN RS08845 WP 000609572.1     ............HDQQAPNFARNSNPMDISDDDLPF   140
NTDB id 624 LCA RS00040 WP 011373726.1        ............NNTQADPFANNGQAIDISDDDLPF   170
NTDB id 1131 NGFG RS05740 WP 003695064.1      DAPSHPQEAPAAPRRQPVPA...AAPVEDIDDDIPF   174
NTDB id 1103 NMB RS07590 WP 002212976.1       DAPSHPQEAPAAPRRQPVPA...AAPVEDIDDDIPF   174
NTDB id 1166 A1552VC RS00795 WP 000168289.1   MQQSAPQQ......YSQPQY...NEPPMDFDDDIPF   177
consensus                                                            * * *** ******
```

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