```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1166 A1552VC RS00795 WP 000168289.1    MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI    80
NTDB id 1390 A4U84 RS00055 WP 021115958.1      ..MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYV    78
NTDB id 583 DLJ51 RS09560 WP 002962590.1       ....MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQD.GER..QADFVNVVFWGKLAESLVSYAGKGSLVSL    73
NTDB id 498 SM12261 RS01980 WP 000282464.1     ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GER..EADFVNMVLWGKLAESLASYATKGSLISV    73
NTDB id 526 SMSK321 RS08825 RP 000282440.1     ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 158 SP RS09595 WP 000282442.1          ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 268 KZH43 RS08520 WP 000282467.1       ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 227 SPD RS09110 WP 000282467.1         ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 193 SPR RS08685 WP 000282467.1         ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GER..EADFVNMVLWGRLAETLASYATKGSLISV    73
NTDB id 113 BSU 40900 NP 391970.1              ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQS.GER..EADFINCVTWRRQAENVANFLKKGSLAGV    73
NTDB id 112 BSU 36310 NP 391512.2              ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNAS.GEI..EADYVNCTLWRKTAENTALYCQKGSLVGV    73
NTDB id 1020915 ABZ559 RS01945 WP 061630269.1  ....MINNVVLVGRMTKDAELRYTPSNVAVATFTLAVNRNRKNEN.GER..EADFINCVIWRQAAENLANWAKKGALIGV    73
NTDB id 624 LCA RS00040 WP 011373726.1         ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNAN.GDR..EADFINCVIWRKSAENFANFTKKGSLVGV    73
consensus                                       **!*!***!***  ***  * *   !*  **!*** ***** !**  ************!! ** ** !!*** *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1166 A1552VC RS00795 WP 000168289.1    EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQGGM...NVPAQ......QGSWGQPQQPAKQHQ..    149
NTDB id 1390 A4U84 RS00055 WP 021115958.1      EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGGDFGGNQGSGWNQAPAQ..TNYNQGGYSDNYAQNNNFNGG    152
NTDB id 583 DLJ51 RS09560 WP 002962590.1       DGEIRTRHYEK.DGQTHYVTEILA....QSFQLLESRAQRALRENNGAS...............................    117
NTDB id 498 SM12261 RS01980 WP 000282464.1     DGELRTRRFEK.NGQMNYVTEVLV....TGFQLLESRAQRAMRENNAGQ...............................    117
NTDB id 526 SMSK321 RS08825 RP 000282440.1     DGELRTRRFEK.NGQMNYVAEVLV....TGFQLLESRAQRAMRENNAGQ...............................    117
NTDB id 158 SP RS09595 WP 000282442.1          DGELRTRRFEK.NGQMNYVTEVLV....TGFQLLESRAQRAMRENNAGQ...............................    117
NTDB id 268 KZH43 RS08520 WP 000282467.1       DGELRTRRFEK.NGQMNYVTEVLV....TGFQLLESRAQRAMRENNAGQ...............................    117
NTDB id 227 SPD RS09110 WP 000282467.1         DGELRTRRFEK.NGQMNYVTEVLV....TGFQLLESRAQRAMRENNAGQ...............................    117
NTDB id 193 SPR RS08685 WP 000282467.1         DGELRTRRFEK.NGQMNYVTEVLV....TGFQLLESRAQRAMRENNAGQ...............................    117
NTDB id 113 BSU 40900 NP 391970.1              DGRLQTRNYENQQGQRVFVTEVQA....ESVQFLEPKNGGGSGSGGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRN...    146
NTDB id 112 BSU 36310 NP 391512.2              SGRIQTRSYENEEGVNVYVTEVLA....DTVRFMDPKPREKAAD.....................................    113
NTDB id 1020915 ABZ559 RS01945 WP 061630269.1  TGRIQTRSYDNQQGQRVYVTEVVA....ESFQLLESRGQQSQGNSFQNGNNSNSGNFQNGNN..QGY.............    134
NTDB id 624 LCA RS00040 WP 011373726.1         DGRLQTRNYENQQGQRVYVTEVVV....DNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQQ..SGFTSPQQTGNAP...    144
consensus                                      *! **!!***  *!*  ***!***      ********* * **  ***

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1166 A1552VC RS00795 WP 000168289.1    PMQQSAPQQYSQPQYNEPPMDFDDDIPF    177
NTDB id 1390 A4U84 RS00055 WP 021115958.1      NATRPQPAQKPAAQAEPPMDNFDDDIPF    180
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 RP 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 113 BSU 40900 NP 391970.1              ..QGNSFNDDPFANDGKPIDISDDDLPF    172
NTDB id 112 BSU 36310 NP 391512.2              ................................    113
NTDB id 1020915 ABZ559 RS01945 WP 061630269.1  ........QSPF.GNSSPMDISDDDLPF    153
NTDB id 624 LCA RS00040 WP 011373726.1         ..AANNTQADPFANNGQAIDISDDDLPF    170
consensus                                                   *   *** ******
```

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