```
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 WP 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 1030597 AB6W33 RS01180 WP 000609569.1  ....MINNVVLVGRLTKDAELRYTPSNVAVATFTLAVNRPYKNDA.GER..EADFINCVIWRQSAENLANWAKKGSLIGI    73
NTDB id 624 LCA RS00040 WP 011373726.1          ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNAN.GDR..EADFINCVIWRKSAENFANFTKKGSLVGV    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
consensus                                           **!*!***!*!*   ***   * *    !*   **!***  ****   !**   ***************!!  **  **  !!!**  *

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NTDB id 1166 A1552VC RS00795 WP 000168289.1     EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQGGM....NVPAQ..........QGSWGQPQQPAK   146
NTDB id 1390 A4U84 RS00055 WP 021115958.1       EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGGDFGGNQGS.GWNQAPAQ......TNYNQGGYSDNYAQNN   147
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 WP 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 1030597 AB6W33 RS01180 WP 000609569.1  TGTIQTRNYENQQGQRVYVTEVIA....SNFQLLESRSSQQDNQGGNFQNG................NNQGNFGNPGG...   131
NTDB id 624 LCA RS00040 WP 011373726.1          DGRLQTRNYENQQGQRVYVTEVVV....DNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ.......QSGFTSPQQTGN   142
NTDB id 113 BSU 40900 NP 391970.1               DGRLQTRNYENQQGQRVFVTEVQA....ESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQR   144
NTDB id 112 BSU 36310 NP 391512.2               SGRIQTRSYENEEGVNVYVTEVLA....DTVRFMDPKPREKAAD....................................   113
consensus                                       *! **!!***  *!*  ***!***      ********* * **  ***

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NTDB id 1166 A1552VC RS00795 WP 000168289.1     QHQ..PMQQSAPQQYSQPQYNEPPMDFDDDIPF......   177
NTDB id 1390 A4U84 RS00055 WP 021115958.1       NFNGGNATRPQPAQKPAAQAEPPMDNFDDDIPF......   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 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 1030597 AB6W33 RS01180 WP 000609569.1  ............YQSPF.SNSTPMDISDDDLPFQDRSTI   157
NTDB id 624 LCA RS00040 WP 011373726.1          APAA.....NNTQADPFANNGQAIDISDDDLPF......   170
NTDB id 113 BSU 40900 NP 391970.1               RNQG.....NSFNDDPFANDGKPIDISDDDLPF......   172
NTDB id 112 BSU 36310 NP 391512.2               ......................................   113
consensus                                                           *   *** ******
```

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