```
logo
```

```
NTDB id 1166 A1552VC RS00795 WP 000168289.1  MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
NTDB id 583 DLJ51 RS09560 WP 002962590.1     ....MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQDG...ERQADFVNVVFWGKLAESLVSYAGKGSLVSL   73
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 334900 EQJ95 RS01990 WP 065124802.1 ....MINRTVLVGRLTKDPEIRYTQSGMAVANFTMAVNRQFTNANG...EREADFISCIVWRKAAENFCNFTHKGSLVGI   73
NTDB id 624 LCA RS00040 WP 011373726.1       ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANG...DREADFINCVIWRKSAENFANFTKKGSLVGV   73
NTDB id 113 BSU 40900 NP 391970.1            ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG...EREADFINCVTWRRQAENVANFLKKGSLAGV   73
NTDB id 112 BSU 36310 NP 391512.2            ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG...EIEADYVNCTLWRKTAENTALYCQKGSLVGV   73
consensus                                        **!*****!*!*  *** **** **!*  **!**********   ****************!!****** !!!****
```

```
logo
```

```
NTDB id 1166 A1552VC RS00795 WP 000168289.1  EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQGGMNVP...........AQQGSWGQPQQPAKQHQ  149
NTDB id 583 DLJ51 RS09560 WP 002962590.1     DGEIRTRHYEK.DGQTHYVTEILAQSFQLLESRAQRALRE.NNGAS.................................  117
NTDB id 498 SM12261 RS01980 WP 000282464.1   DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRE.NNAGQ.................................  117
NTDB id 526 SMSK321 RS08825 WP 000282440.1   DGELRTRRFEK.NGQMNYVAEVLVTGFQLLESRAQRAMRE.NNAGQ.................................  117
NTDB id 158 SP RS09595 WP 000282442.1        DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRE.NNAGQ.................................  117
NTDB id 268 KZH43 RS08520 WP 000282467.1     DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRE.NNAGQ.................................  117
NTDB id 227 SPD RS09110 WP 000282467.1       DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRE.NNAGQ.................................  117
NTDB id 193 SPR RS08685 WP 000282467.1       DGELRTRRFEK.NGQMNYVTEVLVTGFQLLESRAQRAMRE.NNAGQ.................................  117
NTDB id 334900 EQJ95 RS01990 WP 065124802.1 DGRIQTSSYEK.EGQRVYATQVVVDSFSLLEPKQQSQQRG.QQSNASD...............ALHNNFGQPT.......  129
NTDB id 624 LCA RS00040 WP 011373726.1       DGRLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQ.GDGASQNFNSNQSNGSQ.......QSGFTSPQQTGNAPA  145
NTDB id 113 BSU 40900 NP 391970.1            DGRLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGS.G.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQ  147
NTDB id 112 BSU 36310 NP 391512.2            SGRIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................  113
consensus                                    *!***!***** *!*  ******* *************** *****
```

```
logo
```

```
NTDB id 1166 A1552VC RS00795 WP 000168289.1  PMQQSAPQQYSQPQYNEPPMDFDDDIPF   177
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 334900 EQJ95 RS01990 WP 065124802.1 .......NNY..SQNNNDFGIDDNDLPF   148
NTDB id 624 LCA RS00040 WP 011373726.1       ANNTQ.ADPF..ANNGQAIDISDDDLPF   170
NTDB id 113 BSU 40900 NP 391970.1            GNSFN.DDPF..ANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2            ............................   113
consensus                                                 ** ***********
```

X non conserved
X similar
X ≥ 50% conserved