```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1166 A1552VC RS00795 WP 000168289.1  MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
NTDB id 624 LCA RS00040 WP 011373726.1       ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNAN.GDRE..ADFINCVIWRKSAENFANFTKKGSLVGV   73
NTDB id 299441 DP111 RS07450 WP 044675308.1 ....MINNVVLVGRLTRDVELRYTPSNQAVATFTLAVNRNFKNQSTGERE..ADFINCVLWRQQAENLANWTKKGHLIAI   74
NTDB id 113 BSU 40900 NP 391970.1            ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQS.GERE..ADFINCVTWRRQAENVANFLKKGSLAGV   73
NTDB id 112 BSU 36310 NP 391512.2            ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNAS.GEIE..ADYVNCTLWRKTAENTALYCQKGSLVGV   73
NTDB id 597 KW2 RS01935 WP 021036727.1       .....MNKTMLIGRLTNAPEISKTTNNKSYVRVTLAVNRRFKNEK.GERE..ADFISIILWGKSAETLVSYAKKGSLISV   72
NTDB id 498 SM12261 RS01980 WP 000282464.1   ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GERE..ADFVNMVLWGKLAESLASYATKGSLISV   73
NTDB id 526 SMSK321 RS08825 WP 000282440.1   ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GERE..ADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 158 SP RS09595 WP 000282442.1        ....MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GERE..ADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 268 KZH43 RS08520 WP 000282467.1     ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GERE..ADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 227 SPD RS09110 WP 000282467.1       ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GERE..ADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 193 SPR RS08685 WP 000282467.1       ....MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQN.GERE..ADFVNMVLWGRLAETLASYATKGSLISV   73
NTDB id 583 DLJ51 RS09560 WP 002962590.1     ....MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQD.GERQ..ADFVNVVFWGKLAESLVSYAGKGSLVSL   73
NTDB id 409 SMU RS08940 WP 002263454.1       ....MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQD.GEKQ..ADFVNVVLWGRLAETIASYGSKGSLISL   73
consensus                                       **!*****!*!*  *** ** * ***** **!****** *  !***  **************!!****** !!*****

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NTDB id 1166 A1552VC RS00795 WP 000168289.1  EGQLQTRKWGDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQGGMNV...........PAQQGSWGQPQQPAKQHQ  149
NTDB id 624 LCA RS00040 WP 011373726.1       DGRLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQ.NFNSNQSNGS.......QQSGFTSPQQTGNAPA  145
NTDB id 299441 DP111 RS07450 WP 044675308.1 TGRIQTRSYDNQQGQRVYVTEVVAESFQLLEKRDNTANHTS.....................................  115
NTDB id 113 BSU 40900 NP 391970.1            DGRLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGG......YNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQ  147
NTDB id 112 BSU 36310 NP 391512.2            SGRIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................  113
NTDB id 597 KW2 RS01935 WP 021036727.1       EGEIRTRNYTDKNEQKHYITEILGLSYDLLESRATLALRESAV.....................................  115
NTDB id 498 SM12261 RS01980 WP 000282464.1   DGELRTRRFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG....................................  116
NTDB id 526 SMSK321 RS08825 WP 000282440.1   DGELRTRRFE.KNGQMNYVAEVLVTGFQLLESRAQRAMRENNAG....................................  116
NTDB id 158 SP RS09595 WP 000282442.1        DGELRTRRFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG....................................  116
NTDB id 268 KZH43 RS08520 WP 000282467.1     DGELRTRRFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG....................................  116
NTDB id 227 SPD RS09110 WP 000282467.1       DGELRTRRFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG....................................  116
NTDB id 193 SPR RS08685 WP 000282467.1       DGELRTRRFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG....................................  116
NTDB id 583 DLJ51 RS09560 WP 002962590.1     DGEIRTRHYE.KDGQTHYVTEILAQSFQLLESRAQRALRENNGA....................................  116
NTDB id 409 SMU RS08940 WP 002263454.1       DGELRTRKYE.KDGVTHFVTEVLGHSFQLLESRAQRAMRENNSE....................................  116
consensus                                    *!***!!*** ****  ***!***  ******************

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NTDB id 1166 A1552VC RS00795 WP 000168289.1  PMQQSAPQQYSQPQYNEPPMD.FDDDIPF  177
NTDB id 624 LCA RS00040 WP 011373726.1       A....NNTQADPFANNGQAIDISDDDLPF  170
NTDB id 299441 DP111 RS07450 WP 044675308.1 ......IEEQMPPGFSGQPMDIDDDGLPF  138
NTDB id 113 BSU 40900 NP 391970.1            G....NSFNDDPFANDGKPIDISDDDLPF  172
NTDB id 112 BSU 36310 NP 391512.2            ..............................  113
NTDB id 597 KW2 RS01935 WP 021036727.1       ...............KTEELLLEADELPF  129
NTDB id 498 SM12261 RS01980 WP 000282464.1   ...............QDLADLVLEEEELPF  131
NTDB id 526 SMSK321 RS08825 WP 000282440.1   ...............QDLADLVLEEEELPF  131
NTDB id 158 SP RS09595 WP 000282442.1        ...............QDLADLVLEEEELPF  131
NTDB id 268 KZH43 RS08520 WP 000282467.1     ...............QDLADLVLEEEELPF  131
NTDB id 227 SPD RS09110 WP 000282467.1       ...............QDLADLVLEEEELPF  131
NTDB id 193 SPR RS08685 WP 000282467.1       ...............QDLADLVLEEEELPF  131
NTDB id 583 DLJ51 RS09560 WP 002962590.1     ...............SDLTDLVLEEEELPF  131
NTDB id 409 SMU RS08940 WP 002263454.1       ...............NDLADLVLEEEELPF  131
consensus                                                   *** **********
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X non conserved
X similar
X $\geq$ 50% conserved