

```
NTDB id 597 KW2 RS01935 WP 021036727.1          .MNKTMLIGRLTNAPEISKTTNNKSYVRVTLAVNRRFKNEKGEREADFISIILWGKSAETLVSYAKKGSLISVEGEIRTR   79
NTDB id 498 SM12261 RS01980 WP 000282464.1      MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGKLAESLASYATKGSLISVDGELRTR   80
NTDB id 526 SMSK321 RS08825 WP 000282440.1      MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 158 SP RS09595 WP 000282442.1           MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 268 KZH43 RS08520 WP 000282467.1        MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 227 SPD RS09110 WP 000282467.1          MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 193 SPR RS08685 WP 000282467.1          MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   80
NTDB id 583 DLJ51 RS09560 WP 002962590.1        MYNKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQDGERQADFVNVVFWGKLAESLVSYAGKGSLVSLDGEIRTR   80
NTDB id 409 SMU RS08940 WP 002263454.1          MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQDGEKQADFVNVVLWGRLAETIASYGSKGSLISLDGELRTR   80
NTDB id 238381 CO646 RS01740 WP 096081340.1     MINNTTLVGRLTKDPDLRYTSSGKAVAGFTLAVNRRFTNQAGQREADYIQCVIWGKSAETLAKYAKKGSLIGIVGRLQSR   80
NTDB id 624 LCA RS00040 WP 011373726.1          MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR   80
NTDB id 113 BSU 40900 NP 391970.1               MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSGEREADFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   80
NTDB id 112 BSU 36310 NP 391512.2               MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASGEIEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR   80
consensus                                       **!*****!!!*  *** *! * ***** **!!!!*** * !***!!******!***!!****** !!!!****!****!
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NTDB id 597 KW2 RS01935 WP 021036727.1          NYTDKNEQKHYITEILGLSYDLLESRATLALRESAV.....................................KT  117
NTDB id 498 SM12261 RS01980 WP 000282464.1      RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.....................................DL  119
NTDB id 526 SMSK321 RS08825 WP 000282440.1      RFE.KNGQMNYVAEVLVTGFQLLESRAQRAMRENNAGQ.....................................DL  119
NTDB id 158 SP RS09595 WP 000282442.1           RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.....................................DL  119
NTDB id 268 KZH43 RS08520 WP 000282467.1        RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.....................................DL  119
NTDB id 227 SPD RS09110 WP 000282467.1          RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.....................................DL  119
NTDB id 193 SPR RS08685 WP 000282467.1          RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAGQ.....................................DL  119
NTDB id 583 DLJ51 RS09560 WP 002962590.1        HYE.KDGQTHYVTEILAQSFQLLESRAQRALRENNGAS.....................................DL  119
NTDB id 409 SMU RS08940 WP 002263454.1          KYE.KDGVTHFVTEVLGHSFQLLESRAQRAMRENNSEN.....................................DL  119
NTDB id 238381 CO646 RS01740 WP 096081340.1     SYENKEQQRVYVTEVVETFQFLESKTAKEQRQNNQNNQQND.....................NSD.PNFEG  130
NTDB id 624 LCA RS00040 WP 011373726.1          NYENQQGQRVYVTEVVDNFSLLESRTTTEQRQGDGASQNFNSNQS..NGSQQSGFTSPQQTGNAPAANNTQADPFANNG  158
NTDB id 113 BSU 40900 NP 391970.1               NYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSFNDDPFANDG  160
NTDB id 112 BSU 36310 NP 391512.2               SYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.....................................  113
consensus                                        **  ****   ***!***  ********************                              **
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NTDB id 597 KW2 RS01935 WP 021036727.1          EELLLEADELPF  129
NTDB id 498 SM12261 RS01980 WP 000282464.1      ADLVLEEEELPF  131
NTDB id 526 SMSK321 RS08825 WP 000282440.1      ADLVLEEEELPF  131
NTDB id 158 SP RS09595 WP 000282442.1           ADLVLEEEELPF  131
NTDB id 268 KZH43 RS08520 WP 000282467.1        ADLVLEEEELPF  131
NTDB id 227 SPD RS09110 WP 000282467.1          ADLVLEEEELPF  131
NTDB id 193 SPR RS08685 WP 000282467.1          ADLVLEEEELPF  131
NTDB id 583 DLJ51 RS09560 WP 002962590.1        TDLVLEEEELPF  131
NTDB id 409 SMU RS08940 WP 002263454.1          ADLVLEEEELPF  131
NTDB id 238381 CO646 RS01740 WP 096081340.1     AAIDISDDDLPF  142
NTDB id 624 LCA RS00040 WP 011373726.1          QAIDISDDDLPF  170
NTDB id 113 BSU 40900 NP 391970.1               KPIDISDDDLPF  172
NTDB id 112 BSU 36310 NP 391512.2               ............  113
consensus                                       ************
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X non conserved

X similar

X $\geq$ 50% conserved