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NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSSRGERAYDIYSRLLKDRIIMLTG	PVEDGMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSSRGERAYDIYSRLLKDRIIMLTG	PVEDGMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PVEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PVEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PVEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PVEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PVEDNMANS	IAQLFLDAQDN	TKDIYLYI	NSPGGSVSAG	80
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PVEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG	PVEDNMANS	IAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLLKDRIIMLTG	SAIDNVANS	IVSQQLLFLA	AEDEPKETISLY	NSPGGSITAG	74
NTDB id 1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSSRGRERSYDIYSRLLKDRIIMLTG	SEIHDELAAS	IVAQLLFLA	EADPTKDIYLYI	NSPGGVITSG	73
consensus		***!***!!***!!!!*!!!!!!!!!!!!!!!!!!!!*****!*!*!*!***!!!!!!*!*!*!*!***!!***!!					

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NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMG	TIASSG	TKGRF	MPLPNAEY	LIHQPMGG	AGQGT	QQTDM	IAIVAEQ	LLKTRKR	LEQ	155
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMG	TIASSG	TKGRF	MPLPNAEY	LIHQPMGG	TGQGT	QQTDM	IAIVAEQ	LLKTRKR	LEQ	155
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMG	TIASSG	TKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRNN	LEQ	152
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMG	TIASSG	TKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRNN	LEQ	152
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMG	TIASSG	AKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRNT	LEK	152
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMG	TIASSG	AKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRNT	LEK	152
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMG	TIASSG	AKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRNT	LEK	152
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMG	TIASSG	AKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRNT	LEK	152
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNF	IKSDVQ	TIVMG	TAASMG	TIASSG	AKGRF	MPLPNAEY	LIHQPMGG	TGGGT	QQSDMAIAAE	QLLKTRKK	LEK	160
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNF	IKADVQ	TIVMGMAASMG	TIASSG	TKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRHR	LEK	152
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNF	IKADVQ	TIVMGMAASMG	TIASSG	TKGRF	MPLPNAEY	MIHQPMGG	TGGGT	QQTDM	IAAAEHL	LLKTRHR	LEK	152
NTDB id 86 BSU 34540 NP 391334.1	MAIYDTM	QFIKPKVST	ICIGMAASMG	AFLLAA	GEKGR	YALPNS	EVMIHQPL	GGAQG	..QAT	EIEIAAKR	ILLRDKLN	K	152
NTDB id 1223 Cj0192c YP 002343650.1	FSIYDTM	NVYIKP	DVCTICIG	QAASMG	AFLLSC	GABGKR	FALPNS	SRIMHQPL	GARG	..QATDIEI	QAKEILL	KTILND	151
consensus	***!***!!!!*!*!!!!!!!!***!!*!!!!!!!!!!!!*****!!!!*!*!*!*!***!!***!!												

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NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNR	SLEQTHK	DAERDHW	MDAKET	LEYGF	FIDEIM	NNSLK	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNR	SLEQTHK	DAERDHW	MDAKET	LEYGF	FIDEIM	NNSLK	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQ	PIEKVHV	DAERDNW	MSAQET	LEYGF	FIDEIM	TNNQLK	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQ	PIEKVHV	DAERDNW	MSAQET	LEYGF	FIDEIM	TNNQLK	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQ	SMEKVH	DAERDNW	MSAQET	LEYGF	FIDEIM	ANNSLN	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQ	SMEKVH	DAERDNW	MSAQET	LEYGF	FIDEIM	ANNSLN	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQ	SMEKVH	DAERDNW	MSAQET	LEYGF	FIDEIM	ANNSLN	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQ	SMEKVH	DAERDNW	MSAQET	LEYGF	FIDEIM	ANNSLN	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGK	TIKQTHK	DAERDYW	MDAKET	LKYGF	FIDEIM	NNBLK	204
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNACK	TIKQTHK	DAERDYW	MSAEBE	TLAYGF	FIDEIM	NNBLK	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNACK	TIKQTHK	DAERDYW	MSAEBE	TLAYGF	FIDEIM	NNBLK	196
NTDB id 86 BSU 34540 NP 391334.1	VLAERTG	QPLEVIER	DTDRDN	FKSAE	EALCYGL	IDKIL	THTEDKK	197
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTK	QKQVAK	LAKDTER	DFMSAQ	EAKCYGL	IDKILEK	SFK	194
consensus	***!*****!***!!***!!*!!!!!!!!!!!!*****!!*!*!*!***!!							

 non conserved
 similar
 $\geq 50\%$ conserved