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NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGTPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGTPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 1159670 QOR57 RS07980 WP 000613483.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	80
NTDB id 1223 Cj0192c YP 002343650.1	MFIP	TVIEQSSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	73
NTDB id 86 BSU 34540 NP 391334.1	MNLIP	TVIEQTNRGERAYDIYSRLLKDRIIMLTGSAIDNANSIVSQLLFLAEDPEKEISLYINSPGGSITAG	74
consensus		***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!	

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NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	155
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	155
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 1159670 QOR57 RS07980 WP 000613483.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	152
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQTDM	IAAEHL	LKTRNTLEK	160
NTDB id 1223 Cj0192c YP 002343650.1	FSIYDTMNY	IKPDVCTICIGQAASMGAFLLSCGABGKRF	ALPNSRIMIHQPLGCGARG..QATDIEIQAKE	TLRLKTI	LNND		151
NTDB id 86 BSU 34540 NP 391334.1	MAIYDTMQFI	PKVSTICIGMAASMGAFLLAAGEGKGRY	ALPNSEVMIHQPLGCAQC..QATEIEIAAKRI	LLLRDKLNK			152
consensus		***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!					

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NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNR	SLEQIHKDAERD	HWM	DAKETLEYGFIDEIMENNSL	K.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNR	SLEQIHKDAERD	HWM	DAKETLEYGFIDEIMENNSL	K.	199
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQ	SMEKVHDAERD	NWMSAQETLEYGFIDEIMANNSL	N.		196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQ	SMEKVHDAERD	NWMSAQETLEYGFIDEIMANNSL	N.		196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQ	SMEKVHDAERD	NWMSAQETLEYGFIDEIMANNSL	N.		196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQ	SMEKVHDAERD	NWMSAQETLEYGFIDEIMANNSL	N.		196
NTDB id 1159670 QOR57 RS07980 WP 000613483.1	ILADNSGQ	SIEKVHDAERD	RWMSAQETLDYGFIDA	IMENNNLQ.		196
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQ	PIEKVHVDAERD	NWMSAQETLEYGFIDEIMTNNQL	K.		196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQ	PIEKVHVDAERD	NWMSAQETLEYGFIDEIMTNNQL	K.		196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNA	GKTIKQIHKDAERD	YWMSABETLAYGFIDEIMENNEL	K.		196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNA	GKTIKQIHKDAERD	YWMSABETLAYGFIDEIMENNEL	K.		196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSG	KTIKQIHKDAERD	YWMDAKETLKYGFIDEIMENNEL	K.		204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIK	QKVAKIAKDTERD	FFMSAQEAK	EYGLIDKYLEKS	FK..	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERT	GQPLEVIERD	TRDRDNFKSAFEALEYGLIDKIL	TLHTED	KK	197
consensus		***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!				

 non conserved
 similar
 $\geq 50\%$ conserved