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NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGTPVEDGMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGTPVEDGMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPIEDNMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPIEDNMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id 1155565 QNH68 RS02150 WP 223375679.1	.MSKRSNF	MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDP	TKDIYLYVNTPGGSVSAG	79
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 1223 Cj0192c YP 002343650.1	MFIPY	VIEKSSRGRERSYDIYSRLLKDRIIMLSGEIHDELAASIVAQLLFLAEADPT	TKDIYLYINSPGGVITS	73
NTDB id 86 BSU 34540 NP 391334.1	MNLIP	TYIEQTNRGERAYDIYSRLLKDRIIMLSGAIIDNVANSIVSQLLFLAEDPEKEIS	LYINSPGGSITAG	74
consensus		***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!		

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NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNTLEK	155	
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNTLEK	155	
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNNLEK	152	
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNNLEK	152	
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNF	IKSDVQTI	VMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	SDMAIAAEHLLKTRKKLEK	160	
NTDB id 1155565 QNH68 RS02150 WP 223375679.1	LAIVDTMNF	IKADVQTI	VMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNKLEK	159	
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRHRLK	152	
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRHRLK	152	
NTDB id 1223 Cj0192c YP 002343650.1	FSIYDTM	NYIKPDV	CTICIGQAASMGAFLLSCGABGKR	FALPNSRIMIHQPLGCGARG..	QATDIEIQAKEILRLKTI	LND	151
NTDB id 86 BSU 34540 NP 391334.1	MAIYDTM	QFIKPKV	STICIGMAASMGAFLLAAGEGKGR	YALPNSEVMIHQPLGCAQC..	QATEIEIAAKRIILLRDK	LNK	152
consensus	***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!						

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NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQIHKDAERDHWMDAKETLEYGFIDEIMENNS	SLK.	199	
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERDHWMDAKETLEYGFIDEIMENNS	SLK.	199	
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNS	SLN.	196	
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNS	SLN.	196	
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNS	SLN.	196	
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNS	SLN.	196	
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQETLEYGFIDEIMTN	NQLK.	196	
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQETLEYGFIDEIMTN	NQLK.	196	
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTI	KQIHKDAERDYWMDAKETLKYGFIDEIMENNEL	K.	204	
NTDB id 1155565 QNH68 RS02150 WP 223375679.1	ILADNSGKTV	KQIHKDAERDYWMSAEBETLAYGFIDQIMDN	TKVK.	203	
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAGKTI	KQIHKDAERDYWMSAEBETLAYGFIDEIMENNEL	K.	196	
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAGKTI	KQIHKDAERDYWMSAEBETLAYGFIDEIMENNEL	K.	196	
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQ	KVAKIAKDTERDFFMSAQEAK	EYGLIDKYLEKS	FFK..	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTIGQPI	EVIERDTRDRDNFKSABEAL	EYGLIDKILTHTED	KK	197
consensus	*!*~*				

 non conserved
 similar
 $\geq 50\%$ conserved