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NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGPPVEDGMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGPPVEDGMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSVIAQLLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSVIAQLLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSVIAQLLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSVIAQLLFLDAQDS	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	MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	80
NTDB id 298375 DK875 RS07365 WP 002937303.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDP	TKDIYLYVNTPGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSVIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPPVEDNMANSVIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 1223 Cj0192c YP 002343650.1	MFIP	VIEKSSRGRERSYDIYSRLLKDRIIMLTSGEIHDELAASIVAQLLFLAEADPT	TKDIYLYINSPGGVITS	73
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTYIEQTNRGERAYDIYSRLLKDRIIMLTGSAIDNVAANSIVSQLLFLAEDPE	KETISLYINSPGGSITAG	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	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	SDMAIAAEQLLKRKKLEK	160	
NTDB id 298375 DK875 RS07365 WP 002937303.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MPLPNAEYMIHQPMGGTGGGTQQQ	TDMAIAAEHLLKTRNKLEK	152	
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	EQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199	
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199	
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196	
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196	
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196	
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQSM	EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196	
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196	
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196	
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTI	KQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204	
NTDB id 298375 DK875 RS07365 WP 002937303.1	ILADNSGKTV	KQIHKDAERDYWMSAEBETLAYGFIDQIMDNTKVK.	196	
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAGKTI	KQIHKDAERDYWMSAEBETLAYGFIDEIMENNELK.	196	
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAGKTI	KQIHKDAERDYWMSAEBETLAYGFIDEIMENNELK.	196	
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQ	KVAKIAKDTERDFFMSAQEAK	EYGLIDKYLEKSFK..	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTIGQ	PLEVIERDTRDNRNFKSABE	ALEYGLIDKILTHTEDKK	197
consensus	*!*			

 non conserved
 similar
 $\geq 50\%$ conserved