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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		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPTEDNMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGPTEDNMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDN	TKDIYLYVNTPGGSVSAG	80
NTDB id 49745 SSUD9 RS07470 WP 002937303.1		MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDP	TKDIYLYVNTPGGSVSAG	72
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	MFIP	VIEKSSRGRERSYDIYSRLLKDRIIMLTSGEIHDELAASIVAQLLFLEAEDPT	TKDIYLYINSPGGVITS	73
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLLKDRIIMLTGSAIDNANSIVSQLLFLAEDPEK	EISLYINSPGGSITAG	74
consensus		***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!		

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NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	155	
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	155	
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNNLEK	152	
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNNLEK	152	
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNF	IKSDVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	SDMAIAAEQLLKRKKLEK	160	
NTDB id 49745 SSUD9 RS07470 WP 002937303.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNKLEK	152	
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRHRLK	152	
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAASMGTYIASSCAKGRF	MFLPNAEYMIHQPMGGTGGGTQQ	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	ILADNSNR	SLEQIHKDAERD	HWMDAKETLEYGFIDEIMEN	NSLK.	199	
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNR	SLEQIHKDAERD	HWMDAKETLEYGFIDEIMEN	NSLK.	199	
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQ	SMEKVHADAERD	NWMSAQETLEYGFIDEIMAN	NSLN.	196	
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQ	SMEKVHADAERD	NWMSAQETLEYGFIDEIMAN	NSLN.	196	
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQ	SMEKVHADAERD	NWMSAQETLEYGFIDEIMAN	NSLN.	196	
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQ	SMEKVHADAERD	NWMSAQETLEYGFIDEIMAN	NSLN.	196	
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQ	PIEKVHVDAERD	NWMSAQETLEYGFIDEIMT	NNQLK.	196	
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQ	PIEKVHVDAERD	NWMSAQETLEYGFIDEIMT	NNQLK.	196	
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGK	TIKQIHKDAERD	YWMDAKETLKYGFIDEIMEN	NELK.	204	
NTDB id 49745 SSUD9 RS07470 WP 002937303.1	ILADNSGK	TVKQIHKDAERD	YWMSAEBETLAYGFIDQIMDN	TKVK.	196	
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAGK	TIKQIHKDAERD	YWMSAEBETLAYGFIDEIMEN	NELK.	196	
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAGK	TIKQIHKDAERD	YWMSAEBETLAYGFIDEIMEN	NELK.	196	
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIK	QKVAKIAKDTERD	FFMSAQEAK	EYGLIDKYLEKS	FFK..	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTIGQ	PLEVIERD	TRDRDNFKSABEAL	EYGLIDKILTHTED	KK	197
consensus	*!*~					

 non conserved
 similar
 $\geq 50\%$ conserved