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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 251440 CR541 RS07755 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	IPTVIEQTNRGERAYDIYSRLLKDRIIMLTGSAIDNVAANSIVSQLLFLAEDPE	KISLYINSPGGSITAG	74
consensus		***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!		

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NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	155	
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	155	
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNF	IKADVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNTLEK	152	
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNNLEK	152	
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNNLEK	152	
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNF	IKSDVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	SDMAIAAEQLLKRKKLEK	160	
NTDB id 251440 CR541 RS07755 WP 002937303.1	LAIVDTMNF	IKADVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRNKLEK	152	
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNF	IKADVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRHRLEK	152	
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNF	IKADVQ	TIVMGMAASMGTYIASSCAKGRF	MPLNAEYMIHQPMGGTGGGTQQ	TDMAIAAEHLLKTRHRLEK	152	
NTDB id 1223 Cj0192c YP 002343650.1	FSIYDTM	NYIKPD	VTICIGQAASMGAFLLSCGABGKR	FALPNSRIMIHQPLGGARG..	QATDIEIQAKEILRLKTI	LND	151
NTDB id 86 BSU 34540 NP 391334.1	MAIYDTM	QFIKPK	VSTICIGMAASMGAFLLAAGEGKGR	YALPNSEVMIHQPLGGAQC..	QATEIEIAAKRIILLRDK	LNK	152
consensus	***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!						

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NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNR	SLEQIHK	DAERDHWMDAK	ETLEYGFIDEIM	NNSLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNR	SLEQIHK	DAERDHWMDAK	ETLEYGFIDEIM	NNSLK.	199
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSG	QSMEKVH	ADAERDNWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSG	QSMEKVH	ADAERDNWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSG	QSMEKVH	ADAERDNWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSG	QSMEKVH	ADAERDNWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSG	QPIEKVHV	DAERDNWMSAQ	ETLEYGFIDEIM	TNNQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSG	QPIEKVHV	DAERDNWMSAQ	ETLEYGFIDEIM	TNNQLK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSG	KTIKQIHK	DAERDYWMDAK	ETLKYGFIDEIM	NNELK.	204
NTDB id 251440 CR541 RS07755 WP 002937303.1	ILADNSG	KTVKQIHK	DAERDYWMSAEB	ETLAYGFIDQIM	DMNTKVK.	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAG	KTIKQIHK	DAERDYWMSAEB	ETLAYGFIDEIM	NNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAG	KTIKQIHK	DAERDYWMSAEB	ETLAYGFIDEIM	NNELK.	196
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTK	QKVAKIAK	DTERRDFMSAQ	EAKYGLIDKV	LEKSFK.	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTG	QPLEVIER	DTDRDNFKSAB	EALYGLIDKIL	THTEDEVKK	197
consensus	*!*~*					

 non conserved
 similar
 $\geq 50\%$ conserved