

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIIYLVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIIYLVNTPGGSVSAG	75
NTDB id	114082 T303 RS02895 WP 002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIIYLVNTPGGSVSAG	72
NTDB id	330 STU RS11365 WP 002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIIYLVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIIYLVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDSTKDIIYLVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDSTKDIIYLVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDSTKDIIYLVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDSTKDIIYLVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIIYLVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIIYLVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDNTKDIIYLYINSPGGSVSAG	80
NTDB id	86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANISVSQLLFLAAEDPEKEISLYINSPGGSTITAG	74
NTDB id	1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAASIVAQLLFLEAEDPKTKDIIYLYINSPGGVITSG	73
consensus				**!*!*****!!*!*****!!*!*****!!*!*****!!*!*****!!*!*****!!*!*****!!*!

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQPMGGAGQG	TQQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQPMGGTGQG	TQQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	114082 T303 RS02895 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRNNLEQ	152	
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRNNLEQ	152	
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRNNLEQ	152	
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRHRLEK	152	
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLLKTRHRLEK	152	
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSG	AKGGRFMLPNAEYL	LHQPMGGTGGGTQQSDMAIAAEQLLKTRKKLEK	160	
NTDB id	86 BSU 34540 NP 391334.1	MAIYD TMNFIKP	KVSTICIGMAASMGAFLLAAGE	EKGKRYALPNSEVMIHQPLGGAQG..	QATEIEIAAKRI LLLRDKLNK	152	
NTDB id	1223 Cj0192c YP 002343650.1	FSIYD TMNFIKP	DVCTICIGQAASMGAFLLSCGAE	EKGFRFALPNSRIMIHQPLGGARG..	QATDIEIQAKEILRLKTLIND	151	
consensus		**!!*!!!!**!!	*!*!!!!*!*****!	*!!!!!!!!!!!!!!!!!!!!*	*!!!!!!!!!!!!!!!!!!!!*	*!!!!!!!!!!!!!!!!!!!!*	!*

NTDB id	602 KW2 RS03060 WP 011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611 V4T04 RS07970 WP 003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	114082 T303 RS02895 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	330 STU RS11365 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298 STER RS01925 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	282 KZH43 RS03215 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246 SPD RS03495 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244 SPR RS03300 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242 SP RS03655 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445 SPYM3 RS01720 WP 002985850.1	ILAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	86 BSU 34540 NP 391334.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223 Cj0192c YP 002343650.1	FLAKNTIKQKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLEKSFK..	194
consensus		*!*****!!*****!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*	

 non conserved
 similar
 $\geq 50\%$ conserved