

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGTIEDNMANS	IAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGTIEDNMANS	IAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id	341340	ETT66	RS07495	WP	002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDQAQDNTKDIYLYINSPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MFIPY	VIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAAS	IVAQLLFLEAEDPTKDIYLYINSPGGVITSG	73	
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANS	IVSQLLFLAAEDPEKEISLYINSPGGISITAG	74
consensus							**!*!*****!!*!!!!!!!!!!!!!!**!*!*****!!*!!!!!!!!!!!!!!		

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL I HQPMGGAGQGQTQQTDMAIVAEQLLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL L IHQPMGGTGQGQTQQTDMAIVAEQLLKTRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNNLEQ	152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHHLLKTRNNLEQ	152
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRNTLEK	152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRNTLEK	152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRNTLEK	152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRNTLEK	152
NTDB id	341340 ETT66 RS07495 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHHLLKTRHRLEK	152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRHRLEK	152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRHRLEK	152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGI AASMGT TI ASSGT	TGKGRFMLPNAEYL LIHQPMGGTGGGTQQSDMAIAAEQLLKTRKKLEK	160
NTDB id	1223 CjO192c YP 002343650.1	FSTIYDTMNFIKP	DVCTICIGQAASMGAF LLSCGE	GKGFALPNSSRIMIHQP LGGARGL.. QATDIEIQAKEILRLKITLND	151
NTDB id	86 BSU 34540 NP 391334.1	MAYIDTMCFIKPKVS	TCICIGMAASMG AFL LAAGE	EKGKYALPNSEVMIHQPL GGAAG.. QATEIEIAAKRIILLRDKLNK	152
consensus		**!!**!!!!*	*!*****!!!***!	*!!!!!!!!!!!!!!!!!!!!****!* !!*****!!*****!!*****!!*****!!*****!!**	

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 341340 ETT66 RS07495 WP 002985850.1	ILAQ NAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQ NAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQ NAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLK YGFIDEIMENNELK.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTKQKVAKIAKDTERDFFMSAQEAK EYGLIDKVL EKSFK.	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPLEVIERDTRD NFKSAEEALEYGLIDKILTHTEDKK	197
consensus	*!***** * * * * ! * * * ! ! * * * ! * * * * *	

 non conserved
 similar
 $\geq 50\%$ conserved