

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIP	VVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN	TCKDIYLYINSPPGGSITAG	80
NTDB id	340124 ETA18 RS18075 WP 003228214.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANISVSQLLFLAAEDPEKEISLYINSPGGGITAG	74	
NTDB id	86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANISVSQLLFLAAEDPEKEISLYINSPGGGITAG	74	
NTDB id	1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAASIVAQLLFLEADPEKTCKDIYLYINSPGGVITS	73	
consensus					
*****!****!!**!*!!!!!!!!!!!!!!!*****!!***!*****!*****!					

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL I HQPMGGAGQG	TQTQTDMAIVAEQL L KTRKRLE Q	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL I HQPMGGTGQG	TQTQTDMAIVAEQL L KTRKRLE Q	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAEEHLLKTRNN LEQ	152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAAEHLLKTRNN LEQ	152
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVI ASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAAEHLLKTRNT LEK	152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVI ASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAAEHLLKTRNT LEK	152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVI ASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAAEHLLKTRNT LEK	152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVI ASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAAEHLLKTRNT LEK	152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVI ASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAAEHLLKTRHR LEK	152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVI ASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQDMAIAAAEHLLKTRHR LEK	152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	SDVQTI VMGI A ASMGTTI ASSGA	KGGRFMLPNAEYL I HQPMGGTGGGTQQ S DMAIAAQ LLKTRKKL E K	160	
NTDB id	340124 ETA18 RS18075 WP 003228214.1	M AI YDTMQ FIKPKVSTICIGMAASMGAFL LAAGEKGKRYALPNSEVMIHQP LGGAQG.. .QA TIE IE IA AKRI LLLL RDKLNK	152			
NTDB id	86 BSU 34540 NP 391334.1	M AI YDTMQ FIKPKVSTICIGMAASMGAFL LAAGEKGKRYALPNSEVMIHQP LGGAQG.. .QA TIE IE IA AKRI LLLL RDKLNK	152			
NTDB id	1223 Cj0192c YP 002343650.1	F SI YD TM NY IK P DVCTICI G QA ASM GA FL L SC GA EG KR FA LP N SR IM IH Q PL GGARG .. .QA TD IE IQAKE IL RL KT II ND	151			
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	ILADNSGQPPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	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	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	340124	ETA18	RS18075	WP	003228214.1	VLAERTIGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTIGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTIKQKVAKIAKTDTERDFFMSAQEAKKEYGLIDKVLEKSFK..	194	
consensus						*!*****!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved