

NTDB id 602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 330	STU RS11365 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPTEEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 298	STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPTEEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 282	KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id 246	SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id 244	SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id 242	SP RS03655 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id 446	SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDN TKDIYLYVNTPGGSVSAG	72
NTDB id 445	SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDN TKDIYLYVNTPGGSVSAG	72
NTDB id 376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYINSPPGGSVSAG	80
NTDB id 983269	NSU11 RS16680 WP 024427684.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAEADPEKDISIYINSPGGSITAG		74
NTDB id 86	BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAEADPEKEISLYINSPGGSITAG		74
NTDB id 1223	Cj0192c YP 002343650.1	MF	IPLYVIEKSSRGRERSYDIYSRLKDRIIMLSGEIHDELAASIVAQLFLAEADPTKDIYLYINSPGGVITSG		73
consensus			*****		

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQPMGGAGC	QGTTQTDMAI	VAEQLL	KTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQPMGGTGQ	GTTQTDMAI	VAEQLL	KTRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRNNLEQ	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRNNLEQ	152	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRNTLEK	152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRNTLEK	152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRNTLEK	152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRNTLEK	152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRHRLEK	152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QTTQTDMAIAAAEHLL	KTRHRLEK	152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYL	LHQPMGGTGQ	GSDMAIAAEQ	LLKTRKKLEK	160	
NTDB id	983269	NSU11	RS16680	WP	024427684.1	MAIYDTMQFIKP	PKVSTICIGMAASMG	AFL	LLAAGEKGKRYALPNSEV	MIHQPLGGAQG..QATEIEIAAKRI	LLSLRDKLNQ	152			
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKP	PKVSTICIGMAASMG	AFL	LLAAGEKGKRYALPNSEV	MIHQPLGGAQG..QATEIEIAAKRI	LLLRDKLNK	152			
NTDB id	1223	Cj0192c	YP	002343650.1	FSAIYDTMNYIKP	DVCTICIGQAASMG	AFL	LLSCGAEGKRFALPNSRIMIHQPLG	LGARG..QATDIEIQAKEILLRL	ITILND	151				
consensus						**!*!*	!!**!	*!!*	*****	*!!**!	!!**!	!!**!	!!**!	!!**!	!!**!

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQIHKDAERDHWMDAK	ETLEYGFI	DEIMENNS	SLK..	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERDHWMDAK	ETLEYGFI	DEIMENNS	SLK..	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQ	ETLEYGFI	DEIMTNNQ	LK..	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQ	ETLEYGFI	DEIMTNNQ	LK..	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFI	DEIMANNS	SLN..	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFI	DEIMANNS	SLN..	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFI	DEIMANNS	SLN..	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFI	DEIMANNS	SLN..	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNA	GKTIKQIHKDAERDYWMSAE	ETLAYGFI	DEIMENNEL	LK..	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAAQNA	GKTIKQIHKDAERDYWMSAE	ETLAYGFI	DEIMENNEL	LK..	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGK	TIKQIHKDAERDYWMDAK	ETLKYGFI	DEIMENNEL	LK..	204
NTDB id 983269 NSU11 RS16680 WP 024427684.1	VLAERTGQ	PIEVIERDTRDRNFKTAEEALQYGLIDKVLTRN	TEDQK			198
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQ	PIEVIERDTRDRNFKSAEEALEYGLIDKILTHTED	KK.			197
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIK	QKVAKIAKDTERDFFMSAQEAK	EYGLIDKVL	LEKSF	...	194
consensus	*****	*****	*****	*****	*****	

 non conserved
 similar
 $\geq 50\%$ conserved