

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 968749	MHH68 RS15685 WP 024719872.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAEADPEKDISIYINSPGGSITAG	74	
NTDB id 86	BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAEADPEKEISLYINSPGGSITAG	74	
NTDB id 1223	Cj0192c YP 002343650.1	MF	IPLYVIEKSSRGRERSYDIYSRLKDRIIMLSGEIHDELAASIVIAQLFLAEADPTKDIYLYINSPGGVITSG	73	
consensus			*****	*****	

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQPMGGAGCQT	QQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQPMGGTGQGT	QQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNNLEQ	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNNLEQ	152	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNTLEK	152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNTLEK	152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNTLEK	152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNTLEK	152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRHRLEK	152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRHRLEK	152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSG	AKGGRFMLPNAEYL	LHQPMGGTGGGTQQSDMAIAAEQ	LLKTRKKLEK	160
NTDB id	968749	MHH68	RS15685	WP	024719872.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATEIEIAAKRIILSLRDKLNQ	152				
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATEIEIAAKRIILLRDKLNK	152				
NTDB id	1223	Cj0192c	YP	002343650.1	FSAIYDTMNYIKPDVCTICIGQAASMGAFLLSCGAEGKRFALPNSRIMIHQPLGLGAR..QATDIEIQAKEILLRLITLND	151					
consensus						**!*!!!!**!!	*!*****!	*****!	*****!	*****!	***

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQIHKDAERDHWMDAK	ETLEYGFIDEIMENNSLK..	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERDHWMDAK	ETLEYGFIDEIMENNSLK..	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQ	ETLEYGFIDEIMTNNQLK..	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQ	ETLEYGFIDEIMTNNQLK..	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSM	EKVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAKGT	IKIHKDAERDYWMSAE	ETLAYGFIDEIMENNELK..	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAAQNAKGT	IKIHKDAERDYWMSAE	ETLAYGFIDEIMENNELK..	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTI	IKIHKDAERDYWMDAK	ETLKYGFIDEIMENNELK..	204
NTDB id 968749 MHH68 RS15685 WP 024719872.1	VLAERTGQPI	EVIERDTRDRNFKTAEEALQYGLIDKVLTRN	SEEQK	198
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPI	EVIERDTRDRNFKSAEEALEYGLIDKILTHTED	KK.	197
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQKV	IAKDTERDFFMSAQ	EAKYGLIDKVLKSFK...	194
consensus	*****	*****	*****	

 non conserved
 similar
 $\geq 50\%$ conserved