

NTDB id 602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRL	LDRIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	75			
NTDB id 611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRL	LDRIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	75			
NTDB id 330	STU RS11365 WP 002949732.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PIEDNMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72		
NTDB id 298	STER RS01925 WP 002949732.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PIEDNMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72		
NTDB id 282	KZH43 RS03215 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 246	SPD RS03495 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 244	SPR RS03300 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 242	SP RS03655 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 446	SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 445	SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANSIIAQLFLDAQDN	TKDIYLY	INS	PGGSVSAG	80	
NTDB id 67407	BTUAT1 RS15920 WP 007500118.1	MNL	IPTVIEQTN	RGERAYDIYSRL	LDRIIMLTG	SAIDDNVANS	VSQLLFL	EAED	PEKDISIY	INSPGGSITAG	74
NTDB id 86	BSU 34540 NP 391334.1	MNL	IPTVIEQTN	RGERAYDIYSRL	LDRIIMLTG	SAIDDNVANS	VSQLLFL	EAED	PEKEISLY	INSPGGSITAG	74
NTDB id 1223	Cj0192c YP 002343650.1	MF	IPYVIEKSSR	GERSYDIYSRL	LDRIIMLTG	SEIHDELAA	ASIVAQLFL	EAEDP	TKDIYLY	INSPGGVITSG	73
consensus			*****								

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	L IHQPMGGAGCQT	QQTDMAI VAEQLL	KTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	L IHQPMGGTGQT	QQTDMAI VAEQLL	KTRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRNNLEQ			152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRNNLEQ			152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRNTLEK			152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRNTLEK			152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRNTLEK			152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRNTLEK			152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRHRLEK			152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMIAAAEHLLKTRHRLEK			152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSG	AKGGRFMLPNAEYL	L IHQPMGGTGGGTQQSD	MAIAAEQLL	KTRKKLEK	160
NTDB id	67407	BTUAT1	RS15920	WP	007500118.1	MAIYDTMQFIKPKVST	ICIGMAASMGAFLLAAGEKGKRYALPNSEVM	IHQPLGGAQG..QATEIEIAAKRI	LSLRDKLNQ			152
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPKVST	ICIGMAASMGAFLLAAGEKGKRYALPNSEVM	IHQPLGGAQG..QATEIEIAAKRI	LLLRDKLNK			152
NTDB id	1223	Cj0192c	YP	002343650.1	FSAIYDTMNYIKP	DVCTICIGQAASMGAFLLSCGAEGKRFALPNSRIM	IHQPLGGARG..QATDIEIQAKEILRLKIT	LND			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 67407 BTUAT1 RS15920 WP 007500118.1	VLAERTGQ	PIEVIERDTRDRNFKTAEEALQYGLIDKVLTRN	TEEQK			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