

NTDB id	602	KW2	RS03060	WP	011834647.1		MGYLVPTVIEQSSRGERAYDIYSRLKLDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1		MGYLVPTVIEQSSRGERAYDIYSRLKLDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDN TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1		MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDN TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSIIAQLFLDQAQDN TKDIYL I NSPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1		MFIPYVIEKSSRGERSYDIYSRLKLDRIIMLSGEIHDELAASIVAQLLFLAEADPTKDIYLYINS PGGVITSG	73	
NTDB id	21605	BT9727	RS13500	WP	000991625.1		MNAIPYVVEQTKLGRSYDIYSRLKLDRIVIIGSEINDQVASSVVAQLLFLAEADA EKDFLYINSPGGSTITAG	74
NTDB id	86	BSU	34540	NP	391334.1		MNLIPTVIEQTNRGERAYDIYSRLKLDRIIMLGSAIDNVANSIVSQLLFLAAEADPEKEISLYINSPGG SITAG	74
consensus							**!*!?!*****!!*!!!!!!!*****!**!*?***!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYLIHQPMGGAGQG	TQQTDMAIVAEQLLKTRKRLEQ
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYLIHQPMGGTGQG	TQQTDMAIVAEQLLKTRKRLEQ
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNNLEQ
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRNNLEQ
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNTLEK
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNTLEK
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNTLEK
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNTLEK
NTDB id	446 SpvM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRHRLEK
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRHRLEK
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSGA	KGRFMLPNAEYLIHQPMGGTGGGT	TQQSDMAIAAEEQLLKTARKKLEK
NTDB id	1223 Cj0192c YP 002343650.1	FSLIIDMNLIKPVCTICIGQAASMGAFILLS	CAGEKGFALPNSSRIMIHQPPLGGARG.	. . QATDIEIQAKEILRLKITIND	
NTDB id	21605 BT9727 RS13500 WP 000991625.1	FAILEDNMNLIKPDVTLCMGFAASFALLLS	GAKGKFALPNSEVMIHQPPLGGAQG.	. . QATEIEITAKIRILKLKHDKINK	
NTDB id	86 BSU 34540 NP 391334.1	MAYIDTMCFIKPKVSTTCIGMAASMGAFLLA	EKGKRYALPNSEVI MHQPPLGGAQG.	. . QATEIEIAAKRIILLRDKLNK	
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	ILAAQNAGKTIIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITKKVKVAIKAKDTTERDFFMASQAQEAKEYGLIDKIVLEKSFK..	194	
NTDB id	21605	BT9727	RS13500	WP	000991625.1	MIAEKTIGQPIERVAHDTTERDYFMTAEEAKAYGIIDDVVTKK....	193
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTRDRNFKSAEEALEYGLIDKIILTHTEDKK	197
consensus						*****!***!!****!*!!!!**	

 non conserved
 similar
 $\geq 50\%$ conserved