

NTDB id	602 KW2 RS03060 WP 011834647.1		MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1		MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQS TKDIIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN TKDIIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1		MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN TKDIIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKY S	MIPVV	EIQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQN TDKIYLYINS PGGSITAG	80
NTDB id	322586 DA787 R517800 WP 003228214.1		MNLI	P TVIEQTNRGERAYDIYSRLKDRII MLGSAID DNIVANSIS QLLFLAAE DPEKE ISLY INSPGG SITAG	74
NTDB id	86 BSU 34540 NP 391334.1		MNLI	P TVIEQTNRGERAYDIYSRLKDRII MLGSAID DNIVANSIS QLLFLAAE DPEKE ISLY INSPGG SITAG	74
NTDB id	1223 Cj0192c YP 002343650.1		MFIP	YVEIKSSRGRSYDIYSRLKDRII M LSGEIHD LAASIVA QL FLFA EAD PTKD IY LYIN SP GGVI TS G	73
consensus				**!*!!!!!!**! !!!!!!!!!!!!!!!!!*****!!!* !! * !!!* !!* !!* !!!* !!* !!!*	

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQITVMGMAASMGTTIASSGT	TGKRFRMLPNAEYL	LHQPMMGGAGQG	TQTQTDMAIVAEEQLLKTRKRL	EQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQITVMGMAASMGTTIASSGT	TGKRFRMLPNAEYL	LHQPMMGGTGQG	TQTQTDMAIVAEEQLLKTRKRL	EQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQITVMGMAASMGTTIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNNLE	EQ	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQITVMGMAASMGTTIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAHHLLKTRNNELE	EQ	152	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQITVMGMAASMGTVIASSG	AKGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQITVMGMAASMGTVIASSG	AKGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQITVMGMAASMGTVIASSG	AKGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQITVMGMAASMGTVIASSG	AKGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQITVMGMAASMGTVIASSG	TGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAHHLLKTRHRLEK		152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQITVMGMAASMGTVIASSG	TGKRFRMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAHHLLKTRHRLEK		152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQITVMGTAASMGTTIASSG	AKGKRFRMLPNAEYL	LHQPMMGGTGGGTQQSDMAIAAEQLLKTRKKLEK		160	
NTDB id	322586	DA787	RS17800	WP	003228214.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGRYAALPNSEVMIHQPLGGAQG..QATEIEIAAKRIILLLRDKLNK						152
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGRYAALPNSEVMIHQPLGGAQG..QATEIEIAAKRIILLLRDKLNK						152
NTDB id	1223	Cj0192c	YP	002343650.1	FSAIYDTMNVIKPDVCTTCIGQAASMGAFLLSCGAEGKRFAFPNSRIMIHQPLLGARG..QATDIEIQAKEILRLKTILND						151	
consensus						**!*!*	*!!**!	*!!**!	*!!**!	*!!**!	*!!**!	*!!**!

NTDB id	602	KW2	RS03060	WP	011834647.1	TLADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKQIHKAEDYWMSEAETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAEDYWMSEAETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAEDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	322586	DA787	RS17800	WP	003228214.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITIKQKVAKIAKTDTERDFFMSAQAKEYGLIDKVLEKSFK..	194	
consensus						*!*****!****!*!!**!!!***!!*!!!!!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved