

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIPV	VIEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVV	IEQTSRGERSYISRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TCKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TCKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TCKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDS TCKDIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDN TCKDIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDAQDN TCKDIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN	TCKDIYLYINSPPGGSVSAG	80
NTDB id	985654 MHB66 RS16115 WP 024427684.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANISVSQLLFLEADPEKDISEIYNISPGGSI	TAG	74
NTDB id	86 BSU 34540 NP 391334.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANISVSQLLFLAAEADPEKEISLFINSPGGSI	TAG	74
NTDB id	1223 Cj0192c YP 002343650.1	MFIPY	VIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAASIVAQLLFLEADPT	TCKDIYLYINSPGGVI	73
consensus			**!*!***!!**!!!!!!*!!!!!!!!!!!!!!!!*****!!*!!!*!!!!*!!!!*		

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQPMGGAGC	QGQTQQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQPMGGTGQ	GQTQQTDMAIVA 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	LHQPMGGTGGGTQQSDMAIAAEQQLLKRKKLEK	160	
NTDB id	985654	MHB66	RS16115	WP	024427684.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAAGG..QATEIEIAAKRIILSLRDKLNQ	152				
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAAGG..QATEIEIAAKRIILLRDKLNK	152				
NTDB id	1223	Cj0192c	YP	002343650.1	FSAIYDTMNYIKPFDVCTICIGQAASMGAFILLSCGAEGKRFALPNSRIMIHQPLGLGARAG..QATDIEIQAKEILLRLKITLND	151					
consensus						**!*!!!!**!!	*!*****!	*****!	*****!	*****!	***

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSL	EQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSL	EQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQP	IEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQP	IEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKT	IKQIHKAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKT	IKQIHKAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKT	IKQIHKAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id	985654	MHB66	RS16115	WP	024427684.1	VLAERTGGP	LEVIERDTDRDNFKTAEEALQYGLIDKVLTRNTEDQK	198
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGP	LEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITKQ	KVIAKIDTERDFFMSAQEAKKEYGLIDKVLKSFK...	194	
consensus						*!*****!	*****!*!!!!!!*	!****!*!!*!*****

 non conserved
 similar
 $\geq 50\%$ conserved