

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id 319795 D9C20 RS06235 WP 003228214.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLTG	SAIDDNVANSIVSQLLFLAAEDPEKEISLYINSPGG	ITAG	74
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLTG	SAIDDNVANSIVSQLLFLAAEDPEKEISLYINSPGG	ITAG	74
NTDB id 1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGRS	YDIYSRLKDRIIIMLTSGEIHDELAASIVAQLFLLEADPE	TKDIYLYINSPGGVITSG	73
consensus		*****	*****	*****	

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGAGQG	TQQTDMAIVAEQLLKRKRLEQ	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGTGQG	TQQTDMAIVAEQLLKRKRLEQ	155
NTDB id	330	STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRNNLEQ	152	
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRNNLEQ	152	
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	246	SPD RS03495 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRHRLEK	152	
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAHLLKTRHRLEK	152	
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMTAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGTGGGTQQSDMAIAAEQLLKTRKKLEK	160	
NTDB id	319795	D9C20 RS06235 WP 003228214.1	MAYIDTMCFIKPKVSTICI	GMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATIEIEIAAKRIILLRDKLNK	152			
NTDB id	86	BSU 34540 NP 391334.1	MAYIDTMCFIKPKVSTICI	GMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATIEIEIAAKRIILLRDKLNK	152			
NTDB id	1223	Cj0192c YP 002343650.1	FSAIYDTMNVIKP	DVCTICIGQAASMGAFLLSCGAEGEKRFALPNSRIMIHQPLGGARG..QATDIEIQAKEILRLKTIND	151			
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	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	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	319795	D9C20	RS06235	WP	003228214.1	VLAERTIGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTIGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITIKQKVAKIAKDTERDFEFSQAQEAKKEYGLIDKVLEKSFK..	194	
consensus						*!*****!*!!*!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*	

 non conserved
 similar
 $\geq 50\%$ conserved