

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRL	LKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNT	PGGSVSAG	75	
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRL	LKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNT	PGGSVSAG	75	
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNT	PGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNT	PGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNT	PGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNT	PGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNT	PGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNT	PGGSVSAG	72
NTDB id 977924 MGAS37832 RS01945 WP 002985850.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNT	PGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNT	PGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNT	PGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVEIQT	SRGERSYDIYSRL	LKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYINS	PGGSVSAG	80
NTDB id 1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGERAYDIYSRL	LKDRIIMLTSGEIHDELAAS	IVAQLLFLAEEDPTKDIYLYINS	PGGVITSG	73	
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRL	LKDRIIMLTGSAIDNNVANS	IVSQLLFLAEEDPEKESLYINS	PGGSITAG	74	
consensus	*****	*****	*****	*****	*****	*****	

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYLIHQPMGGAGQG	TQTQTDMAI	VAEQLLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYLIHQPMGGTGQG	TQTQTDMAI	VAEQLLKTRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNNLEQ		152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNNLEQ		152
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	T VIASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNLTLEK		152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	T VIASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNLTLEK		152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	T VIASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNLTLEK		152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	T VIASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNLTLEK		152
NTDB id	977924 MGAS37832 RS01945 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	T VIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRHRLEK		152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	T VIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRHRLEK		152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	T VIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRHRLEK		152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGA	AKGKRFMLPNAEYLIHQPMGGTGGGTQQ	S DMAIAAEQLLKTRKKLEK		160
NTDB id	1223 Cj0192c YP 002343650.1	F S I Y D T M N Y I K P	D V C T I C I G Q A A S M G A F L L S C G A E G K R F A L P N S R I M I H Q P L G G A R G . . Q A T D I E I Q A K E I L R L K T I L N D					151
NTDB id	86 BSU 34540 NP 391334.1	M A I Y D T M Q F I K P V S T I C I G M A A S M G A F L L A A G E K G R Y A L P N S E V M I H Q P L G G A Q G . . Q A T E I E I A A K R I L L R D K L N K						152
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	ILAENSQGSM [*] EKKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSQGSM [*] EKKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSQGSM [*] EKKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSQGSM [*] EKKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 977924 MGAS37832 RS01945 WP 002985850.1	ILAQNAGKTIK [*] QIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAGKTIK [*] QIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAGKTIK [*] QIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIK [*] QIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTTKQKVAKIAKDTERDFFMSAQEAKKEYGLIDKVL [*] LEKSFK..	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTTGPLELVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
consensus	*!***** *!*!!!! !*** !****!!**!	

 non conserved
 similar
 $\geq 50\%$ conserved