

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	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN	TCKDIYLYINSPGGSVSAG	80
NTDB id	1157698	KJP51 RS17580 WP 003228214.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAAEDPEKEISLYINSPGGSI	TAG	74
NTDB id	86	BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAAEDPEKEISLYINSPGGSI	TAG	74
NTDB id	1223	Cj0192c YP 002343650.1	MF	IYPVIEKSSRGERSYDIYSRLKDRIIMLSGEIHDELAASIVAQLFLAEADPT	TCKDIYLYINSPGGVITSG	73
consensus				**!*!!!!**!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!*****!*****!	*!!!!*!!!!*!!!!*!!!!*	

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYLIHQPMGGAGQGTTQTDMIAIVAEQLLKRKRLEQ	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYLIHQPMGGTGQGTQTDMIAIVAEQLLKRKRLEQ	155
NTDB id	330	STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRNNLEQ	152
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRNNLEQ	152
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRNTLEK	152
NTDB id	246	SPD RS03495 WP 000613477.1	LAIVDTMNFICA	DVQTI VMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRNTLEK	152
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFICA	DVQTI VMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRNTLEK	152
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFICA	DVQTI VMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRNTLEK	152
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFICA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRHRLEK	152
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFICA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMIAAAEHLLKTRHRLEK	152
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMTAASMGTVIASSGT	AKGKRFMLPNAEYLIHQPMGGTGGGTQQSDMAIAAEQLLKTRKKLEK	160
NTDB id	1157698	KJP51 RS17580 WP 003228214.1	MAYIDTMCFIKPKVSTICIGMAASMGAFILLAGEGEKGRYALPNSEVMIHQPLGGAAGG..QATEIEIAAKRIILLLRDKLNK			152
NTDB id	86	BSU 34540 NP 391334.1	MAYIDTMCFIKPKVSTICIGMAASMGAFILLAGEGEKGRYALPNSEVMIHQPLGGAAGG..QATEIEIAAKRIILLLRDKLNK			152
NTDB id	1223	Cj0192c YP 002343650.1	FSLIIDTMNYIKPDVCTTCIGQAASMGAFILLSCGAECKRFALPNSRIMIHQPGLGGARG..QATDIEIQAKEILLRLITIND			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	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKQIHKAEDRYWMSAEEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAEDRYWMSAEEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAEDRYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1157698	KJP51	RS17580	WP	003228214.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITIKQKVAKIAKTDTERDFFMSAQEAKKEYGLIDKVLKSFK..	194	
consensus						*!*****!!****!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*	

 non conserved
 similar
 $\geq 50\%$ conserved