

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLRKDRIIMLTGPVEDGMANS	IIAQLLFDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLRKDRIIMLTGPVEDGMANS	IIAQLLFDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPIEDNMANS	IIAQLLFDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPIEDNMANS	IIAQLLFDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPVEDNMANS	IIAQLLFDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPVEDNMANS	IIAQLLFDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPVEDNMANS	IIAQLLFDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPVEDNMANS	IIAQLLFDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPVEDNMANS	IIAQLLFDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSGRSYDIYSRLRKDRIIMLTGPVEDNMANS	IIAQLLFDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGRSYDIYSRLRKDRIIMLTGPVEDNMANS	IIAQLLFDAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id	1223 Cj0192c YP 002343650.1	MFIPY	VEIKSSRGRSYDIYSRLRKDRIIMLSGEIHDELAAS	IIVAQLLFLAEADPT	TKDIYLYINSPGGVITSG	73
NTDB id	214280 BVH75 RS11570 WP 000991611.1	MNAI	PYVVEQTKLGERSYDIYSRLRKDRIITIGSEINDQVASS	VVAQLLFLAEADAEKDI	FLYINSPGGSTTAG	74
NTDB id	86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLRKDRIIMLSAIDNNVANS	IIVSQLLFLAAEDEPEKIS	LYINSPGGSTITAG	74
consensus		** * *	* ** * *	* ** * *	* ** * *	

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTI VMGMAASMGTTIASSGT KGKRFMLPNAEYL I HQPMGGAG Q GTQTQDMAI VAEQL LKTRKRLEQ	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTI VMGMAASMGTTIASSGT KGKRFMLPNAEYL I HQPMGGTG Q GTQTQDMAI VAEQL LKTRKRLEQ	155
NTDB id	330	STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTI VMGMAASMGTTIASSGT KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KTRNNLEQ	152
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTI VMGMAASMGTTIASSGT KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KTRNNLEQ	152
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA DVQTI VMGMAASMGTVI ASSGA KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KLTRN TLEK	152
NTDB id	246	SPD RS03495 WP 000613477.1	LAIVDTMNFIKA DVQTI VMGMAASMGTVI ASSGA KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KLTRN TLEK	152
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFIKA DVQTI VMGMAASMGTVI ASSGA KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KLTRN TLEK	152
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFIKA DVQTI VMGMAASMGTVI ASSGA KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KLTRN TLEK	152
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA DVQTI VMGMAASMGTVI ASSGT KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KTRHR LEK	152
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA DVQTI VMGMAASMGTVI ASSGT KGKRFMLPNAEYMIHQ PMGGTGGGT QTQDMAIA AEHL KTRHR LEK	152
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKS DVTITVMG TI A ASMG TT I ASS GA KGKRFMLPNAEYL I HQPMGGTGGGTQC S DMAIAAEQL LKTRKKLEK	160
NTDB id	1223	Cj0192c YP 002343650.1	FSLVDTMNYIKPDVC TICIGQAASMGAFLLSCGA EGKRFALPN SRIMIHQPL GGAARG..QATDIEIQAKEILRLKTLIND	151
NTDB id	214280	BVH75 RS11570 WP 000991611.1	FATLDTNLLIKPDVQTI CMGF AA SFCA LL SCAGKGKRFALPNSEIMIHQPL GGAQG..QATEIEITAKRIKLKHDLINK	152
NTDB id	86	BSU 34540 NP 391334.1	MAYIDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPL GGAQG..QATEIEITAAKRILLRLDKLINK	152
consensus			** * * * * ** * * * *	

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQTHKDAERD	HWM	DAKETLEYGFIDEIMENNS	SLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQTHKDAERD	HWM	DAKETLEYGFIDEIMENNS	SLK.	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERD	NWMSA	QETLEYGFIDEIMTN	NQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERD	NWMSA	QETLEYGFIDEIMTN	NQLK.	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNS	SLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNS	SLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNS	SLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNS	SLN.	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNA	GKTIKQTHKDAERD	YWMSAE	ETLAYGFIDEIMENNEL	KL.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNA	GKTIKQTHKDAERD	YWMSAE	ETLAYGFIDEIMENNEL	KL.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTI	IKQTHKDAERD	YWMDAKETL	KYGFIDEIMENNEL	KL.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNT	KQKVAKIAKD	TERDFE	MSAQEAK	EYGLIDKVL	EKSFK..
NTDB id 214280 BVH75 RS11570 WP 000991611.1	MTAEKT	GGQPIERV	AHDT	TERDYFM	TAE	EAKAYGI
NTDB id 86 BSU 34540 NP 391334.1	VLAERT	GGQPLEV	IERD	TDRDNFKSA	EAE	LEYGLIDKIL
consensus	***	*****	***	*****	***	*****

 non conserved
 similar
 $\geq 50\%$ conserved