

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLRKDRIIMLTGPVEDGMANSIIAQLLFDAQN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLRKDRIIMLTGPVEDGMANSIIAQLLFDAQN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPIEDNMANSIIAQLLFDAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPIEDNMANSIIAQLLFDAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPVEDNMANSVIAQLLFDAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPVEDNMANSVIAQLLFDAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPVEDNMANSVIAQLLFDAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPVEDNMANSVIAQLLFDAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPVEDNMANSVIAQLLFDAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVV	IETSRGERSYDIYSRLRKDRIIMLTGPVEDNMANSVIAQLLFDAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYSL	MIPVV IETSRGERSYDIYSRLRKDRIIMLTGPVEDNMANSVIAQLLFDAQN	TKDIYLYINSPGGSVSAG	80
NTDB id	1223 Cj0192c YP 002343650.1	MFIPV	YVIEKKSSRGERSYDIYSRLRKDRIIMLSGEIHDELAASIV AQLLFLAEADPT	TKDIYLYINSPPGVITSG	73
NTDB id	61138 BASU RS16125 WP 003151513.1	MNL	IPTVIEQTNRGERAYDIYSRLRKDRIIMLGSAIDDNVANISV SLLFLAEADPEKD	ISTYINSPGGSITAG	74
NTDB id	86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLRKDRIIMLGSAIDDNVANISV SLLFLAEADPEK	EISLYINSPGGSITAG	74
consensus		** * *	* ** * *	*	***** ** * **** * * *

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYL	LHQPMMGGAGQG	GTQQTDMATVAEQ	LLKTRKRLEQ	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYL	LHQPMMGGTGQG	GTQQTDMATVAEQ	LLKTRKRLEQ	155
NTDB id	330	STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYMI	HQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRNNLEQ	152
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYMI	HQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRNNLEQ	152
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRNMLEK	152	
NTDB id	246	SPD RS03495 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRNMLEK	152	
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRNMLEK	152	
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMIHQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRNMLEK	152	
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRHRLEK	152	
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	GTQQTDMAIAAEHL	LKTRHRLEK	152	
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTIIVMGTTIASSG	A KGKRFMLPNAEYL	LHQPMMGGTGGGTQC	S DMAIAAEQLL	KTRKKLEK	160
NTDB id	1223	Cj0192c YP 002343650.1	FSIYDTMNYIKPDVCTICIGQAASMGAFILSCGA	EKGKRFALPN	SRIMHQPLGGARG..	QATDIEIQAKEILRLK	ITIND	151
NTDB id	61138	BASU RS16125 WP 003151513.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGE	EKGKRYALPNSEVM	MIHQPLGGAQG..	QATEIEIAAKRI	LLL RDKLNK	152
NTDB id	86	BSU 34540 NP 391334.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGE	EKGKRYALPNSEVM	MIHQPLGGAQG..	QATEIEIAAKRI	LLL RDKLNK	152
consensus			** * * * *	* * * *	* * * * *	* * * * *	* * * * *	

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQIHKDAERD	HWMDAK	ETLEYGFIDEIMENNS	SLK..	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERD	HWMDAK	ETLEYGFIDEIMENNS	SLK..	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERD	NWMSAQ	ETLEYGFIDEIMTN	NQLK..	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERD	NWMSAQ	ETLEYGFIDEIMTN	NQLK..	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSAQ	ETLEYGFIDEIMANNS	SLN..	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSAQ	ETLEYGFIDEIMANNS	SLN..	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSAQ	ETLEYGFIDEIMANNS	SLN..	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSAQ	ETLEYGFIDEIMANNS	SLN..	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNA	AKTIKQIHKDAERD	YWSAEET	LAYGFIDEIMENNEL	KLK..	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNA	AKTIKQIHKDAERD	YWSAEET	LAYGFIDEIMENNEL	KLK..	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTI	KQIHKDAERD	YWMDAK	ETLKYGFIDEIMENNEL	KLK..	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTKQK	VAKIAKDT	TERDFE	MSAQEAK	EYGLIDKVL	EKSFK... 194
NTDB id 61138 BASU RS16125 WP 003151513.1	VLAERTGQ	PLEVIERD	TDTRDN	FKSADEA	EYGLIDKVL	TRNTEDQK 198
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQ	PLEVIERD	TDTRDN	FKSADEA	EYGLIDKVL	TLHTEDKK. 197
consensus	* ! * * * * * * * *	* * * * * * * *	* * * * * * * *	* ! * * * * * * !	* * * * * * * *	* * * * * * * *

 non conserved
 similar
 $\geq 50\%$ conserved