

NTDB	id	183065	LLUC06	RS03780	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDG	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	75
NTDB	id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDG	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	75
NTDB	id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDG	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	75
NTDB	id	330	STU	RS11365	WP	002949732.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	298	STER	RS01925	WP	002949732.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	282	KZH43	RS03215	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	246	SPD	RS03495	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	244	SPR	RS03300	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	242	SP	RS03655	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	80
NTDB	id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	445	SPYM3	RS01720	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB	id	1223	Cj0192c	YP	002343650.1	MFIP	YVIEKSSRGRSYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	73	
NTDB	id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIMLTGPVEDN	MANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	74
consensus										
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NTDB	id	183065 LLUC06 RS03780 WP 003129593.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYL	LHQPMGGTG	QG	GTQQTDMAI	VAEQLLKRKRLEQ	155
NTDB	id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYL	LHQPMGGTG	QG	GTQQTDMAI	VAEQLLKRKRLEQ	155
NTDB	id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYL	LHQPMGGT	AQ	GTQQTDMAI	VAEQLLKRKRLEQ	155
NTDB	id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRNNLEQ				152
NTDB	id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRNNLEQ				152
NTDB	id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRNNTLEK				152
NTDB	id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRNNTLEK				152
NTDB	id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRNNTLEK				152
NTDB	id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRNNTLEK				152
NTDB	id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTIIVMGTAASMGTVIASSG	AKGKRFMLPNAEYL	LHQPMGGTGGGT	QSDMAIAAEQLLKTRKKLEK			160
NTDB	id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRHRLEK				152
NTDB	id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTQTDMAIAAEHLLKTRHRLEK				152
NTDB	id	1223 Cj0192c YP 002343650.1	FSIYDITMNYIKPDVCTICIGQAASMGAFILSCGAEGKRFALPN	SRI	MIHQPL	LGARG..	QATDIEIQAKEIDRLKTIIND		151
NTDB	id	86 BSU 34540 NP 391334.1	MAYIDTMQFIKPKVSTICIGMAASMGAFILAAGEKGKRYALPNSEVM	IHQPL	GGAQC..	QATEIEIAAKRILLRDKLNK			152
consensus			** * *	* ** *	* * *	* * *	* * *	* * *	* *

NTDB id 183065 LLUC06 RS03780 WP 003129593.1	ILADNSNRSL	EQIHKDAERD	HWM	DAKETLEYGFIDEIMENNSL	K.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERD	HWM	DAKETLEYGFIDEIMENNSL	K.	199
NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQIHKDAERD	HWM	DAKETLEYGFIDEIMENNSL	K.	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERD	NWMSA	QETLEYGFIDEIMTNNQL	K.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERD	NWMSA	QETLEYGFIDEIMTNNQL	K.	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNSL	N.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNSL	N.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNSL	N.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQSM	EKVHADAERD	NWMSA	QETLEYGFIDEIMANNSL	N.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTI	KQIHKDAERD	YWMDA	KETLKYGFIDEIMENNEL	K.	204
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNA	GKTIKQIHKDAERD	YWMSA	EETLAYGFIDEIMENNEL	K.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNA	GKTIKQIHKDAERD	YWMSA	EETLAYGFIDEIMENNEL	K.	196
NTDB id 1223 Cj0192c YP 002343650.1	ILAKN	KQKVAKIAK	DTERRFFMSA	QEAKEYGLIDK	VLEKSF	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERT	GQPLEVIERD	TD	DRDNFKSAEEALEYGLIDK	ILTHTEDK	197
consensus	*	*	*	*	*	*

 non conserved
 similar
 $\geq 50\%$ conserved