

NTDB	id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLRKDRIIMLTGPVEDGMANSIIAQLLFDAQDN TKDIYLYVNTPGGVS	SAG	75		
NTDB	id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLRKDRIIMLTGPVEDGMANSIIAQLLFDAQDN TKDIYLYVNTPGGVS	SAG	75		
NTDB	id	282	KZH43	RS03215	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDSTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	246	SPD	RS03495	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDSTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	244	SPR	RS03300	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDSTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	242	SP	RS03655	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDSTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	375538	FP512	RS07825	WP	000613483.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDNTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	330	STU	RS11365	WP	002949732.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDNTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	298	STER	RS01925	WP	002949732.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDNTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDNTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	445	SPYM3	RS01720	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDNTKDIYLYVNTPGGVS	SAG	72	
NTDB	id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPV	VIEQTSRGERSYDIYSRLRKDRIIMLTGPVEDNMANS	VIAQLFLDAQDNTKDIYLYINSPGGVS	SAG	80
NTDB	id	1223	Cj0192c	YP	002343650.1	MFIP	YVIEKSSRGRSYDIYSRLRKDRIIMLSEGHDELAASI	VIAQLFLFAEDP	TKDIYLYINSPGGVITSG		73	
NTDB	id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLRKDRIIMLSAIDNIVANSI	VSQLLFLAAEDPEKEISLYINSPGGSI	TAG	74	
consensus												
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NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSG	TGKGRFMLPNAEYL	LHQPMMGGAG	CGGTQQTDMATVAEQ	LLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSG	TGKGRFMLPNAEYL	LHQPMMGGTG	CGGTQQTDMATVAEQ	LLKTRKRLEQ	155
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSCA	KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRNTLEK			152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSCA	KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRNTLEK			152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSCA	KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRNTLEK			152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSCA	KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRNTLEK			152
NTDB id	375538 FP512 RS07825 WP 000613483.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QCSDMAIAAEHLLKTRIHTLEK			152
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRNNLEQ			152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRNNLEQ			152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRHRLEK			152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMATAAAEHLLKTRHRLEK			152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTIIVMGTLIASSG	TGKGRFMLPNAEYL	LHQPMMGGTGGGT	QCSDMAIAAEQLLKTRKKLEK		160
NTDB id	1223 Cj0192c YP 002343650.1	FSIYDITMNYIKPDVCTICIGQAASMGAFILSCGAEGKRFALPN	SRTMIHQPLGGARG..	QATDIEIQAKEDRLKTIIND			151
NTDB id	86 BSU 34540 NP 391334.1	MAYIDTMQFIKPKVSTICIGMAASMGAFILLAGEKGRYALPNSEVMIHQPLGGAGC..	QATEIEIAAKRIILLRDKLNK				152
consensus		** * * * *	* * *	* * * * *	* * * * *	* * * * *	* * *

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQTHKDAERD	HWM	DAKETLEYGFIDEIMENN	SLK	199																																			
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQTHKDAERD	HWM	DAKETLEYGFIDEIMENN	SLK	199																																			
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE	NSGGSM	MEKVHAD	DAERDNWMSAQETLEYGFIDEIMANN	SLN	196																																			
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE	NSGGSM	MEKVHAD	DAERDNWMSAQETLEYGFIDEIMANN	SLN	196																																			
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE	NSGGSM	MEKVHAD	DAERDNWMSAQETLEYGFIDEIMANN	SLN	196																																			
NTDB id 242 SP RS03655 WP 000613477.1	ILAE	NSGGSM	MEKVHAD	DAERDNWMSAQETLEYGFIDEIMANN	SLN	196																																			
NTDB id 375538 FP512 RS07825 WP 000613483.1	ILADNSGG	SI	EKVHDDAERDR	WMSAQETLDYGFIDAIMENN	NLQ	196																																			
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGG	PTEKVHV	DAERDNWMSAQETLEYGFIDEIM	TNNQLK	196																																				
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGG	PTEKVHV	DAERDNWMSAQETLEYGFIDEIM	TNNQLK	196																																				
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQ	NAGKTI	KQTHKDAERDYWMSA	ETLAYGFIDEIMENNELK	196																																				
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQ	NAGKTI	KQTHKDAERDYWMSA	ETLAYGFIDEIMENNELK	196																																				
NTDB id 376 SMU RS07595 WP 255262720.1	IL	SDNSGKTI	KQTHKDAERDYWMDAKETL	KYGFIDEIMENNELK	204																																				
NTDB id 1223 Cj0192c YP 002343650.1	ILAK	NTKQKVAK	IAKDTERRF	FMSAQEAKEYGLIDK	VLEKSF	194																																			
NTDB id 86 BSU 34540 NP 391334.1	VLAERT	GQPLEV	IERDTRDRN	FKSAEEALEYGLIDK	ILTHTEDK	197																																			
consensus	*	A	E	T	G	Q	P	L	E	V	I	E	R	D	T	R	D	R	N	F	K	S	A	E	E	A	L	E	Y	G	L	I	D	K	V	L	E	K	S	F	K

 non conserved
 similar
 $\geq 50\%$ conserved