

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLFLDAQDN	T	KD	IYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLFLDAQDN	T	KD	IYLYVNTPGGSVSAG	75
NTDB id	330	STU RS11365 WP 002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPIEDNMANS	IIAQLFLDAQDN	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPIEDNMANS	IIAQLFLDAQDN	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	T	KD	IYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	IIAQLFLDAQDN	T	KD	IYLYINSPGGSVSAG	80
NTDB id	1223	Cj0192c YP 002343650.1	MFIPV	YVIEKSSRGRSYDIYSRLKDRIMLSGETHDELAAS	IVAQLLFLEAEDP	T	KD	IYLYINSPGGVITSG	73
NTDB id	156831	AOD59 RS13775 WP 000991625.1	MNAIP	YVVEQTKLGRSYDIYSRLKDRIVIGSEINDQVAS	SVVAQLLFLEAEDA	E	KD	IYLYINSPGGSTITAG	74
NTDB id	86	BSU 34540 NP 391334.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIMLGSAIDNNVANS	IVSQLFLFAAEDPE	K	EISLYINSPGGSTITAG	74	
consensus									
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				** * *	* ** *	*		* ** *	** * *

NTDB	id	602	KW2	RS03060	WP	011834647.1		LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSGTGKGRFMLPNAEYLHQPMMGGAGQGTTQTDMATVAEQLLKTRKRLEQ	155
NTDB	id	611	V4T04	RS07970	WP	003129593.1		LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSGTGKGRFMLPNAEYLHQPMMGGTGCGTTQTDMATVAEQLLKTRKRLEQ	155
NTDB	id	330	STU	RS11365	WP	002949732.1		LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSGTGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLTKRNNLEQ	152
NTDB	id	298	STER	RS01925	WP	002949732.1		LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSGTGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLTKRNNLEQ	152
NTDB	id	282	KZH43	RS03215	WP	000613477.1		LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAAGKGRFMLPNAEYMIHPMQPGMTGGGTQQTDMAIAAEHLKTRNMLEK	152
NTDB	id	246	SPD	RS03495	WP	000613477.1		LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAAGKGRFMLPNAEYMIHPMQPGMTGGGTQQTDMAIAAEHLKTRNTLEK	152
NTDB	id	244	SPR	RS03300	WP	000613477.1		LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAAGKGRFMLPNAEYMIHPMQPGMTGGGTQQTDMAIAAEHLKTRNTLEK	152
NTDB	id	242	SP	RS03655	WP	000613477.1		LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAAGKGRFMLPNAEYMIHPMQPGMTGGGTQQTDMAIAAEHLKTRNTLEK	152
NTDB	id	446	SpyM6JRS4	RS01695	WP	002985850.1		LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGTGKGRFMLPNAEYMIHPMQPGMTGGGTQQTDMAIAAEHLKTRHRLEK	152
NTDB	id	445	SPYM3	RS01720	WP	002985850.1		LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGTGKGRFMLPNAEYMIHPMQPGMTGGGTQQTDMAIAAEHLKTRHRLEK	152
NTDB	id	376	SMU	RS07595	WP	255262720.1		LAIVDTMNFIKSDVQTIIVMGMAASMGTLIASSGAAGKGRFMLPNAEYLHQPMMGGTGGGTQCSDMAIAAEQLLKTRKKLEK	160
NTDB	id	1223	Cj0192c	YP	002343650.1		FSLVDTMNYIKPDVCITICIGQAASMGAFILSCGAEGKRFALPNSEIMIHQPLGGARG..CATDIEIQAKEILLKKTIIIND	151	
NTDB	id	156831	AOD59	RS13775	WP	000991625.1		FATLDTMNLIKPDVQTLICMGFAASFCAALLLSGAKGGRFALPNSEIMIHPQLGGAQG..CATEIEITAKRIKLKHDLINK	152
NTDB	id	86	BSU	34540	NP	391334.1		MAYIDTMQFIKPKVSTICIGMAAASMGAFLLAAAGEKGKRYALPNSEVMIHQPLGGAQG..CATEIEIAAKRIILLRDKLINKE	152
							consensus	**!***!!**!*!*****!****!!*!*****!*****!*****!*****!*****!*****!	

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSL	EQT	HKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSL	EQT	HKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQPTE	KVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196	
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPTE	KVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196	
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSNGQSME	KVHADAERDNWMSAQETLEYGFIDEIMANNLSN.	196	
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSNGQSME	KVHADAERDNWMSAQETLEYGFIDEIMANNLSN.	196	
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSNGQSME	KVHADAERDNWMSAQETLEYGFIDEIMANNLSN.	196	
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSNGQSME	KVHADAERDNWMSAQETLEYGFIDEIMANNLSN.	196	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAQNAAGKTIKQ	IHKDAERYWMSAEETLAYGFIDEIMENNELK.	196	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAQNAAGKTIKQ	IHKDAERYWMSAEETLAYGFIDEIMENNELK.	196	
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQ	IHKDAERYWMDAKETLKYGFIDEIMENNELK.	204	
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTIKQKVAKIAKDTERDFEWSAQEAKEYGLIDKVLKSFK..	194			
NTDB id	156831	AOD59	RS13775	WP	000991625.1	MIAEKITGGPTE	RVAHDTERRYFMATAEEAKAYGIIDDVVTKK...	193	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGPPLEVI	RTDRDNFSAEEALEYGLIDKKILTHTEDKK	197	
consensus						***?*****?*****!****!!****!!****!!****!*			

 non conserved
 similar
 $\geq 50\%$ conserved