

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPTEEDNMANS	IIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPTEEDNMANS	IIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDQAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 75290 SPAP1 RS08170 WP 002985850.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	VIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYSMIPVVIEQTSRGRERSYDIYSRLKDRIIMLTGPVEDNMANS	IIAQLFLDQAQDNTKDIYLYINSPPGGSVSAG	80
NTDB id 1223 Cj0192c YP 002343650.1	MFIPYVIEKSSRGRERSYDIYSRLKDRIIMLSGEIHDELAAAS	IVAQLFLFEAEDPTKDIYLYINSPPGVITSG	73
NTDB id 86 BSU 34540 NP 391334.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANS	IVSQLFLFAAEDPEKEISLYINSPPGSITAG	74
consensus	*****	*****	

NTDB	id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGT	IASSGT	TGKGRFMLPNAEYL	LHQPMGGAGC	GQTQQTDMAI	VAEQLLKRKRLEQ	155
NTDB	id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGT	IASSGT	TGKGRFMLPNAEYL	LHQPMGGTGQ	GQTQQTDMAI	VAEQLLKRKRLEQ	155
NTDB	id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGT	IASSGT	TGKGRFMLPNAEYMIHQP	MGTTGGGTQQD	TDMAIAAAEHLLKTRNNLEQ	152	
NTDB	id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGT	IASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAHLKTRNMLEQ	152	
NTDB	id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGT	IASSGA	AKGGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAAEHLLKTRNTLEK	152	
NTDB	id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGT	IASSGA	AKGGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAHLKTRNTLEK	152	
NTDB	id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGT	IASSGA	AKGGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAHLKTRNTLEK	152	
NTDB	id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGT	IASSGA	AKGGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAHLKTRNTLEK	152	
NTDB	id	75290	SPAP1	RS08170	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGT	IASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAHLKTRHRLEK	152	
NTDB	id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGT	IASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAHLKTRHRLEK	152	
NTDB	id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGT	IASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQD	TDMAIAAHLKTRHRLEK	152	
NTDB	id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMT	IASSGT	AKGGRFMLPNAEYL	LHQPMGGTGGGTQQ	SDMAIAAEQLLKTRKKLEK	160	
NTDB	id	1223	Cj0192c	YP	002343650.1		FSIYDTMNYIKP	DVCTICIGQAASMGAF	LLSCGAEGKRFALPN	SRI MIHQPLGGARG.	. QATDIEIQAKEILRLKITLND		151	
NTDB	id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPVS	TICIGMAASMGAF	LAAAGEKGKYALPNSEVM	IHQPLGGAQG.	. QATEIEIAAKRILLRDKLNK		152	
consensus							**!!**!!!!!!*	*!*!!!!!!!!!!!!!!!**	*	*****!!!!!!***!!	*****!	*****!****!	***	

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSQGSMKEVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMKEVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMKEVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMKEVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	75290	SPAP1	RS08170	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTKKVKIAKDTERDFFMSAQEAKHEYGLIDKVLKSFK.	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFSAEEALEYGLIDKILTHTDKK	197
consensus						*!***** *!*!! **** !****!!*!*** ** *	

 non conserved
 similar
 $\geq 50\%$ conserved