

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTGVPVEDGMANSIIAQLFLDQAQN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTGVPVEDGMANSIIAQLFLDQAQN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPTEEDNMANSIIAQLFLDQAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPTEEDNMANSIIAQLFLDQAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGVPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGVPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGVPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGVPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGVPVEDNMANSVIAQLFLDQAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGVPVEDNMANSVIAQLFLDQAQN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGVPVEDNMANSIIAQLFLDQAQN	TKDIYLYINSPPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MF	IPYVIEKSSRGERSYDIYSRLKDRIIIMLSGEIHDELAASIVAQLLFLAEADP	TKDIYLYINSPGGVITSG	73	
NTDB id	976150	AADV39	RS16350	WP	003151513.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLGSAIDDNVANISVSQLLFLAEADPEKDISTIYN	INSPGGSTITAG	74
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLGSAIDDNVANISVSQLLFLAAEDPEKEISLIYN	INSPGGSTITAG	74
consensus							***!*****!!**!!!!!!**!*!*****!****!*!*****!*****!*		

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGIT	IASSGT	TGKGRFMLPNAEYL	LIHQPMGGAGQG	TQTQTDMAI VAEQLLKRKRLE	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGIT	IASSGT	TGKGRFMLPNAEYL	LIHQPMGGTGQG	TQTQTDMAI VAEQLLKRKRLE	155
NTDB id	330	STU RS11365 WP 002949732.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGIT	IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNNLE	152	
NTDB id	298	STER RS01925 WP 002949732.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGIT	IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNNLE	152	
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTV	IASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNMLE	152	
NTDB id	246	SPD RS03495 WP 000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTV	IASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNMLE	152	
NTDB id	244	SPR RS03300 WP 000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTV	IASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNMLE	152	
NTDB id	242	SP RS03655 WP 000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTV	IASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRNMLE	152	
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTV	IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRHRLKE	152	
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTV	IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAEHLLKTRHRLKE	152	
NTDB id	376	SMU RS07595 WP 255262720.1	LAIIVDTMNFIKS	DVQTI VMGITAASMGITI	IASSGA	TGKGRFMLPNAEYLIHQPMGGTGGGTQQ	SDMAIAAEQLLKTRKKLE	160	
NTDB id	1223	Cj0192c YP 002343650.1	FSIYDTMNVIKP	DVCTICIGQAASMGAFILLSC	GAECKRFALPN	SRIMIHQPPLGGARG..	QATDIEIQAKEILRLKITIND	151	
NTDB id	976150	AADV39 RS16350 WP 003151513.1	MAYIDTMCFIKPKVS	TIICIGMAASMGAFLLAAGE	EKGKRYALPNSEVM	HIHQPLGGAQG..	QATEIEIAAKRI LLLL RDKLNK	152	
NTDB id	86	BSU 34540 NP 391334.1	MAYIDTMCFIKPKVS	TIICIGMAASMGAFLLAAGE	EKGKRYALPNSEVM	HIHQPLGGAQG..	QATEIEIAAKRI LLLL RDKLNK	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	ILADNSGQPPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	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	ILAKNTIKKKVAIAKDTERDFFMASQAQEAKEYGLIDKVLKSFK...	194	
NTDB id	976150	AADV39	RS16350	WP	003151513.1	VLAERTGGPLEVIERDTDRDNFKSADAEALEYGLIDKVLTRNTEDQK	198
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
consensus						*!***** **!*!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved