

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYSMIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TKDIYLYINSPPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MFIPYVIEKSSRGERSYDIYSRLKDRIIMLSGETIHDELAASIVAQLLFLAEADP	TKDIYLYINSPGGVITSG	73	
NTDB id	51269	MUS	RS17590	WP	003151513.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQLLFLEADEDPEKDISTIYNISPGGSITAG	74	
NTDB id	86	BSU	34540	NP	391334.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQLLFLAAEADPEKEISLIYNISPGGSITAG	74	
consensus							**!*!*****!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!**!*!*!*****!!*!*****!!*!*****!!*!*****!!*!*****!!*	

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LIHQPMGGAGQG	TQQTDMAIIVAEQLLKRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LIHQPMGGTGQG	TQQTDMAIIVAEQLLKRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRNNLEQ	152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRNNLEQ	152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRNMLEK	152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRNMLEK	152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRNMLEK	152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRNMLEK	152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	TGKGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRHRLEK	152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	TGKGRFMLPNAEYMIHQP	MGGTGCGGT	TQQTDMAIAAAEHLLKTRHRLEK	152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGTAASMG	TIASSG	AKGGRFMLPNAEYLI	LIHQPMGGTGCGTQQSD	MAIAAEQLLKTRKKLEK	160
NTDB id	1223	Cj0192c	YP	002343650.1	FSIYDTMN	YIKPDVC	TICIGQAASMGAFILLSCGAEGKRFAALPN	SRIMIHQPLGGARG..	QATDIEIQAKEILRLKTILND	151			
NTDB id	51269	MUS	RS17590	WP	003151513.1	MAIYDTMQFIKP	KPVSTICI	GMAASMGAFLLAAGEKGKRYALPNSEV	MIHQPLGGAQG..	QATEIEIAAKRI	LLLLRDKLNK	152	
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKP	PVSTITCI	GMAASMGAFLLAAGEKGKRYALPNSEV	MIHQPLGGAQG..	QATEIEIAAKRI	LLLLRDKLNK	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	ILAAQNAGKTIKQIHKAERDYWSAEETLAYGFIDEIMENNELK..	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWSAEETLAYGFIDEIMENNELK..	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTIKKKVAIAKDTERDFFMASQAQEAKEYGLIDKVLKSFK..	194	
NTDB id	51269	MUS	RS17590	WP	003151513.1	VLAERTGGPLEVIERDTDRDNFKSADAEALEYGLIDKVLTRNTEDQK	198
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
consensus						*!***** **!*!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved