

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75		
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75		
NTDB id	330	STU	RS11365	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72		
NTDB id	298	STER	RS01925	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72		
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72		
NTDB id	246	SPD	RS03495	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72		
NTDB id	244	SPR	RS03300	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72		
NTDB id	242	SP	RS03655	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72		
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72		
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72		
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYINSPGGSVSAG	80		
NTDB id	1223	Cj0192c	YP	002343650.1	MF	IPLYVIEKSSRGERSYDIYSRLKDRIIMLSGETIHDELAASIVAQLLFLAEADP	TKDIYLYINSPGGVITSG	73			
NTDB id	56400	BAM5036	RS15830	WP	003151513.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQLLFLAEADPEKD	ISITYINSPGGSTITAG	74		
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQLLFLAAEDPEK	EISLYINSPGGSTITAG	74		
consensus							**!*!*	*****!*	*****!*	*****!*	*!!**!

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYL	IHQPMGGAGQG	TQTQTDMAIVAEQLLKRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYL	IHQPMGGTGQG	TQTQTDMAIVAEQLLKRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNNLEQ	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNNLEQ	152	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRHRLEK	152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRHRLEK	152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMTAASMGTTIASSGA	TGGKRFMLPNAEYL	IHQPMGGTGGGTQQSDMAIAAEQLLKRKKLEK	160	
NTDB id	1223	Cj0192c	YP	002343650.1	FSIYDTMNVIKP	DVCTICIGQAASMGAFILLSCGA	EKGKFALPNSSRI MIHQPLGGARG..	QATDIEIQAKEILRLKITIND		151	
NTDB id	56400	BAM5036	RS15830	WP	003151513.1	MAYIDTMCFIKPKVST	TCIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQP L GGA QG ..	QATEIEIAAKRI LL LRDKLNK		152	
NTDB id	86	BSU	34540	NP	391334.1	MAYIDTMCFIKPKVST	TCIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQP L GGA QG ..	QATEIEIAAKRI LL LRDKLNK		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	56400	BAM5036	RS15830	WP	003151513.1	VLAERTGGPLEVIERDTDRDNFKSADAEALEYGLIDKVLTRNTEDQK	198
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSADAEALEYGLIDKILTHTEDKK.	197
consensus						*!***** **!*!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved