

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQN	TCKDIYLYINSPPGGSVSAG	80
NTDB id	1223 Cj0192c YP 002343650.1	MFIPY	VIEQKSRRGERSYDIYSRLKDRIIMLSGETIHDELAASIVAQLLFLAEADP	TCKDIYLYINSPGGVITSG	73
NTDB id	252176 CG477 RS20740 WP 012096148.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQQLLFLESQDP	EKKDIHLYINSPGGSITAG	74
NTDB id	86 BSU 34540 NP 391334.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQQLLFLAAEPEKEISLI	NPSGGSITAG	74
consensus			**!*!*****!!**!*!!!!!!!!!!!!!!*!*!*!*!*!*!*!*!*!*!*!	*!*!***!!*	

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGAGQG	GTTQTDMIAIVA EQLLKTRKRLE	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGTGQG	GTTQTDMIAIVA EQLLKTRKRLE	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRNNLE	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRNNLE	152	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRNTELE	152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRNTELE	152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRNTELE	152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRNTELE	152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRHRLE	152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTG	GTTQTDMIAIAAEHLLKTRHRLE	152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIIVDTMNFIKS	DVQTI VMTAASMGTIIASSGA	TGKGRFMLPNAEYLIHQPMGGTG	GTTQS DMAIAAEQLLKTRKKLE	160	
NTDB id	1223	Cj0192c	YP	002343650.1	FSIYDTMNVIKP	DVCTICIGQAASMGAFILLSCGA	EKGKFALPNSSRI MIHQPLGGARG..	QATDIEIQAKEILRLKTILND		151	
NTDB id	252176	CG477	RS20740	WP	012096148.1	MAYIDTMCFIKPNS	TCICGMAASMGAFLLAAEG	KGKRFALPNSEVM I HQPLGGAQG..	QATEIEIAAKRILFLRDKLNK		152
NTDB id	86	BSU	34540	NP	391334.1	MAYIDTMCFIKPKVS	TCICGMAASMGAFLLAAEG	KGKRYALPNSEVM I HQPLGGAQG..	QATEIEIAAKRILLLRDLKNK		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	ILAAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITKKVKIAIKDTERDFFMASQAQEAKEYGLIDKIVLEKSFK..	194	
NTDB id	252176	CG477	RS20740	WP	012096148.1	ILAEERTGGPLEVIERDTDRDNFMTAEKALEYGLIDRIFTNR....	193
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSAEALALEYGLIDKILTHTEDKK	197
consensus						*!***** **!*!!**!*! *****! *!!!!!!*! *	

 non conserved
 similar
 $\geq 50\%$ conserved