

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU RS11365 WP 002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYINS PGGSVSAG	80
NTDB id	1223	Cj0192c YP 002343650.1	MFIPYVIEKSSRGERSYDIYSRLKDRIIIMLSGEIHDELAAS	IVAQLLFLAEADPTKDIYLYINSPGGVITSG	73
NTDB id	254824	CSW12 RS13725 WP 000991612.1	MNAIPYVVEETKLGRERSYDIYSRLKDRIIITIGSEINDQVASS	VVAQLLFLAEADA EKDFLYINSPGGSTTAG	74
NTDB id	86	BSU 34540 NP 391334.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIIMLGSAIDNVANS	IVSQLLFLAAEDA EPEKEISLYINSPGGSTITAG	74
consensus					**!*!?!*!*****!!*!!!!!!*!!!!!!!!*!*****!***!*****!***!****!

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQPMGGAG	QGTTQQTDMAI	VAEQLL	KTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQPMGGTG	QGTTQQTDMAI	VAEQLL	KTRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRNNLEQ	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRNNLEQ	152	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRNTLEK	152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRNTLEK	152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRNTLEK	152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRNTLEK	152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRHRLEK	152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGT	QGTTQQTDMAIAA	AHELLKTRHRLEK	152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYL	LHQPMGGTGGGT	QQSDMAIAAEQLL	KTRKKLEK	160	
NTDB id	1223	Cj0192c	YP	002343650.1	FSLIYDTMNLIKPKDVQTCICIGQAASMGAFILLSGCAEGKRFALPNSSRI	MIHQPLGGARG..QATDIEIQAKEITRLK	ITILND	151							
NTDB id	254824	CSW12	RS13725	WP	000991612.1	FAILDITMNLIKPKDVQTCICMGFAASFALLLSGCAEGKRFALPNSEVI	MIHQPLGGAQG..QATEIEITAKRILKLKHDINK	152							
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMCFLIKPKVSTICIGMAASMGAFLLAAAGEKGRKYALPNSEVIMIHQPLGGAQG..QATEIEIAAKRILLRLDKLNK	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	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAKGTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAAQNAKGTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQKVAKIAKDTERRDFMSAQEAKKEYGLIDKVLKSFK..	194
NTDB id 254824 CSW12 RS13725 WP 000991612.1	MTAEKTIQGPIERVAHDTERDYFMTAEAEKEYGIVDDVVTKK...	193
NTDB id 86 BSU 34540 NP 391334.1	VLAERTIGQPLEVIERDTRDRNFKSAEEALEYGLIDKILTHTEDKK	197
consensus	***** !*** !**** !**** !**** !**** !**** !****	

 non conserved
 similar
 $\geq 50\%$ conserved