

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	121904	EN73	RS07640	WP	000613483.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGQVEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	330	STU	RS11365	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGP IEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS10925	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGP IEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDNTKDIYLY IN SPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MF	IPIPVIEKSSRGERSYDIYSRLKDRIIMLSGEIHDELAASIVAQLLFLAEADPTKDIYLY IN SPGGVITS	73	
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAAEDPEKEISLY IN SPGGSITAG	74
consensus								**!*!*****!!*!!!!!!!!!!!!!!!!!!!!!!**!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL I HQPMGGAGQG	TQTQTDMAIVAEQL L KTRKRLEQ	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL I HQPMGGTGQG	TQTQTDMAIVAEQL L KTRKRLEQ	155
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRNTLEK	152
NTDB id	246	SPZ RS03495 WP 000613477.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRNTLEK	152
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRNTLEK	152
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRNTLEK	152
NTDB id	121904	EN73 RS07640 WP 000613483.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGA	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRHTLEK	152
NTDB id	330	STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRNNLEQ	152
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRNNLEQ	152
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRHRLEK	152
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGCGT	TQTQDMAIAAAHLLKTRHRLEK	152
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSGA	TGKGRFMLPNAEYL I HQPMGGTGCGT	TQTQDMAIAAAEQ L L KTRKKLEK	160
NTDB id	1223	Cj0192c YP 002343650.1	FSIYDTMNFIKP	DVCTICIGQAASMGAFLLSCGA	EKGKFALPNSEVRIMIHQPLGGARG..	QATDIEIQAKEILRLKTILND	151
NTDB id	86	BSU 34540 NP 391334.1	MAYIDTMQFIKP	VSTJCIGAASMGAFLLAAGE	GKGRYALPNSEVMIHQPLGGAQG..	QATEIEIAAKRIILLRDKLNK	152
consensus			**!!**!!!!*	*!*****!	****!*!!!!!!!!!!!!*	***!!*****!	!*

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	121904	EN73	RS07640	WP	000613483.1	ILADNSGQSIKVVHDDAERDRWMSAQETLDYGFIDAIMENNLIQ.	196
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	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	ILAKNTKKKVKAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK.	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKAEEALEYGLIDKILTHTEDKK	197
consensus						*!*****!!****!*!!!!*!***!!*!!**!	

 non conserved
 similar
 $\geq 50\%$ conserved