

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	1159152	QOR58	RS08335	WP	000613483.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGQVEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	330	STU	RS11365	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	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	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDNTKDIYLYINSPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MF	IPYVIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAASIVAQLFLAEADPTKDIYLYINSPGGVITSG	73	
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAAEDPEKEISLYINSPGGSITAG	74
consensus							**!*!*****!!*!!!!!!!!!!!!!!!!!!!!!!**!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!	

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	IHQPMGGAGQGTTQQTDMAIVA	EQLLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	IHQPMGGTGQGTTQQTDMAIVA	EQLLKTRKRLEQ	155
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNT	LEK	152
NTDB id	246 SPZ RS03495 WP 000613477.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNT	LEK	152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNT	LEK	152
NTDB id	242 SP RS03655 WP 000613477.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNT	LEK	152
NTDB id	1159152 QOR58 RS08335 WP 000613483.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QQSDMAIAAAEHLLKTRHT	LEK	152
NTDB id	330 STU RS11365 WP 002949732.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNN	LEQ	152
NTDB id	298 STER RS01925 WP 002949732.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRNN	LEQ	152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRHR	LEK	152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QQTDMAIAAAEHLLKTRHR	LEK	152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYLIHQPMGGTGGGT	QQSDMAIAAEQLLKTRKK	LEK	160
NTDB id	1223 Cj0192c YP 002343650.1	FSIIYDTMNFIKP	DVCTICIGQAASMGAFLLSCGA	EGKRFALPNSRIMIHQPLGGAR.	.QATDIEIQAKEILRLKITLND		151
NTDB id	86 BSU 34540 NP 391334.1	MAIYDTMQFIKP	VSTICIGMAASMGAFLLAAGE	GKGRYALPNSSEVMIHQPLGGAQG.	.QATEIEIAAKRILLRLDKLNK		152
consensus		*****!	*!*****!	*****!	*****!	*****!	***

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSL E QIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSL E QIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENS G QSMEKVHADAE R DNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENS G QSMEKVHADAE R DNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENS G QSMEKVHADAE R DNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENS G QSMEKVHADAE R DNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	1159152	QOR58	RS08335	WP	000613483.1	ILADNSGGSIEKVVHDAE R DRWMSAQETLDYGFIDAIME N NNLQ.	196
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQP I EKVHVDAE R DNWMSAQETLEYGFIDEIMTN N QLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQP I EKVHVDAE R DNWMSAQETLEYGFIDEIMTN N QLK.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIIKQIHKDAERDYWMSA F ETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIIKQIHKDAERDYWMSA F ETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKN T KQKVAKIAKDTERDFFM S AQAKEYGLIDKVL E KSF K .	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSAEALEYGLIDKILTHTEDKK	197
consensus						*!*****!!****!*!!!!*!!!*!***!!*!!**	

 non conserved
 similar
 $\geq 50\%$ conserved