

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIIYLVTNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIIYLVTNTPGGSVSAG	75
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIIYLVTNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIIYLVTNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIIYLVTNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIIYLVTNTPGGSVSAG	72
NTDB id	358803	E8M05	RS08745	WP	003066032.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDNTKDIIYLVTNTPGGSVSAG	72
NTDB id	330	STU	RS11365	WP	002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIIYLVTNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIIYLVTNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIIYLVTNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIIYLVTNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDNTKDIIYLTNSPGGSVSAG	80
NTDB id	86	BSU	34540	NP	391334.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANISIVSQLLFLAAEDPEKEISLYINSPGGSITAG	74
NTDB id	1223	Cj0192c	YP	002343650.1	MFIPYVIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAAASIVAQLFLLEADPETKDIIYLTNSPGGVITS	73	
consensus						**!*!*****!!*!!!!!!!!!!!!!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	LHQP MGGAAG	QGTTQQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	LHQP MGGGTG	QGTTQQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRNTLEK	152	
NTDB id	246	SPR	RS03495	WP	000613477.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRNTLEK	152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRNTLEK	152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRNTLEK	152	
NTDB id	358803	E8M05	RS08745	WP	003066032.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	A KGKRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRQNLEQ	152	
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRNNLEQ	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRNNLEQ	152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRHRLEK	152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAA EHLKTRHRLEK	152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTVIASSG	A KGKRFMLPNAEYL	LHQP MGGGTGGGTQQSDMAIAA EQLLKTRKKLEK	160	
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATEIEIAAKRI LLRLDKLNK	152				
NTDB id	1223	Cj0192c	YP	002343650.1	FSLIYDTMNYIKPDVCTICIGQAASMGAFLLSCGAECKRFALPNSRIMIHQLPGLGARG..QATDIEIQAKEILRLKTILND	151					
consensus						**!!*****! *!!!!*****! *****! ****!!*****! *****! *****! *****! *****! *****! *****!					

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSL E QTHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSL E QTHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENS G QSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENS G QSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENS G QSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENS G QSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	358803	E8M05	RS08745	WP	003066032.1	ILADNSGQTLEKVVHADAERDNWMSAQETLEYGFIDEIMVNNELN.	196
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQPTEKVVHADAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPTEKVVHADAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQTHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTIKQKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK..	194	
consensus						*!*****!!***!!****!*!*****!?!*****!?!*****!	

 non conserved
 similar
 $\geq 50\%$ conserved