

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDR IIMLTGPVEDGMANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDR IIMLTGPVEDGMANSIIAQLFLDAQDNTKD IYLYVNTPGGSVSAG	75
NTDB id	100257 AACB63 RS01935 WP 003134020.1	MGYLVPTVIEQSSRGERAYDIYSRLKDR IIMLTGQVEDGMANSIIAQLFLDAQDS TKDI YLYITNTPGGSVSAG	75
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPVEDNMANS VIAQLFLDAQDS TKDI YLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPVEDNMANS VIAQLFLDAQDS TKDI YLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPVEDNMANS VIAQLFLDAQDS TKDI YLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPVEDNMANS VIAQLFLDAQDS TKDI YLYVNTPGGSVSAG	72
NTDB id	330 STU RS11365 WP 002949732.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPIEDNMANS II AQLFLDAQDNTKDI YLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPIEDNMANS II AQLFLDAQDNTKDI YLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPVEDNMANS VIAQLFLDAQDNTKDI YLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPVEDNMANS VIAQLFLDAQDNTKDI YLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYSMIPVV IEQT SRGERSYDIYSRLKDR IIMLTGPVEDNMANS II AQLFLDAQDNTKDI YLY ITNSP GG SVSAG	80
NTDB id	86 BSU 34540 NP 391334.1	MNL IPTV IEQTNRGERAYDIYSRLKDR IIML GSAIDNVANSI VS QLL FLAAE DPE KEIS LYINS PG GS ITAG	74
NTDB id	1223 Cj0192c YP 002343650.1	MFIPYV IEKS RGRERSYDIYSRLKDR IIMLS GEIHDELAASIV AQLFLFEADPET KD IYLY INSP GGVI TSG	73
consensus		**!*!*****!!**!!****!!***!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

NTDB	id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL I HQPMGGAGQG	TQQTDMAIVAEQLLKRTRLEQ	155
NTDB	id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL I HQPMGGTGQT	TQQTDMAIVAEQLLKRTRLEQ	155
NTDB	id	100257	AACH63	RS01935	WP	003134020.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSGT	TGKGRFMLPHAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRRTLEK	155
NTDB	id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGKRFLMPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRNTLEK	152
NTDB	id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGKRFLMPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRNTLEK	152
NTDB	id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGKRFLMPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRNTLEK	152
NTDB	id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGKRFLMPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRNTLEK	152
NTDB	id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRNNLEQ	152
NTDB	id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRNNLEQ	152
NTDB	id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRHRLEK	152
NTDB	id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAHLHLLKTRHRLEK	152
NTDB	id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGI AASMGTTIASSGT	AKGKRFLMPNAEYL I HQPMGGTGGGT	TQQSDMAIAAEQLLKTRKKLEK	160
NTDB	id	86	BSU	34540	NP	391334.1	M AIYDTMQFIKP KVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG.. QAT EIEIA AKRI LLRLDKLNK				152
NTDB	id	1223	Cj0192c	YP	002343650.1	F SII YDTMN YIKPD VCTICIGQAASMG AFL LSC GAEGKRFALPN SRIM IHQPLL GGARG.. QAT D IE IQAKE IL RL K TI LND					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	100257 AACB63 RS01935 WP 003134020.1	ILAENS G QSMEKVHADAERDNWMTAQETLDYGFIDEIMEANSLK.	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	330 STU RS11365 WP 002949732.1	ILADNSGQP I EKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298 STER RS01925 WP 002949732.1	ILADNSGQP I EKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAGKT I KQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445 SPYM3 RS01720 WP 002985850.1	ILAAQNAGKT I KQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376 SMU RS07595 WP 255262720.1	ILSDNSGKT I KQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	86 BSU 34540 NP 391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223 Cj0192c YP 002343650.1	ILAKRTIKQKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK..	194
consensus		*!*****!!***!!****!*!*****!?!*****!?!*****!	

 non conserved
 similar
 $\geq 50\%$ conserved