

NTDB id	315857 LLB26 RS03310 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKLDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKD IYLYVNTPGGSVSAG	75
NTDB id	602 KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKLDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKD IYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKLDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKD IYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDSTKD IYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDSTKD IYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDSTKD IYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDSTKD IYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPVEDNMANSIIAQLFLDQAQDNTKD IYLYINSPGGSVSAG	80
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSRGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	1223 Cj0192c YP 002343650.1	MFIPYVIEKSSRGERSYDIYSRLKLDRIIMLTSGEIHDELAAASIVAQLFLLEADPTKD IYLYINSPGGVITS	73
NTDB id	86 BSU 34540 NP 391334.1	MNLIPTVIEQTNRGERAYDIYSRLKLDRIIMLTGSAIDDNVANSIVSQLLFLAEADPEKEISLYINSPGGSITAG	74
consensus		**!*!*****!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!**!*!*****!!*!*****!!*!*****!!*!	

NTDB id	315857 LLB26 RS03310 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGAGQG	TQTQTDMAIVAEQLLKRKRLEQ	155
NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGAGQG	TQTQTDMAIVAEQLLKRKRLEQ	155
NTDB id	611 VT4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	IHQPMGGTGQ	TQTQTDMAIVAEQLLKRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNNLEQ	152	
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNNLEQ	152	
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRNTLEK	152	
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGI AASMGTTIASSGA	KGGRFMLPNAEYL I HQPMGGTGGGTQQ	S DMAIAAEEQLLKTRKKLEK	160	
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRHRLEK	152	
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAAHLLKTRHRLEK	152	
NTDB id	1223 Cj0192c YP 002343650.1	FSIYDTMNFIKP	DVCTICIGQAASMGAFLLSCGA	EKGKFALPN SRIMIHQPLGGARG..	QATDIEIQAKEILRLKTILND	151	
NTDB id	86 BSU 34540 NP 391334.1	MAIYDTMQFIKPKVST	TCIGMAASMGAFLLAAGE	GKGRYALPNS EVMIHQPLGGAQG..	QATEIEIAAKRILLRLDKLNK	152	
consensus		*****!	*!*****!	*****!	*****!	*****!	***

NTDB id 315857 LLB26 RS03310 WP 011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
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 NSGQSM EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSM EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSM EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSM EKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLK YGFIDEIMENNELK.	204
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTKQKVAKIAKDTERDFFMSAQEAK EYGLIDK VLEKSFK.	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPLEVIERDTRDNFKSAEEALEYGLIDKILTHTEDKK	197
consensus	*!***** ** *!*****! ****! !*****! !*!***** ** *	

 non conserved
 similar
 $\geq 50\%$ conserved