

NTDB id	330	STU RS11365 WP 002949732.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPIEDNMANSIIAQLFLFDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPIEDNMANSIIAQLFLFDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSVIAQLFLFDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSVIAQLFLFDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSVIAQLFLFDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSVIAQLFLFDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	602	KW2 RS03060 WP 011834647.1	MGYLVPPTVIEQSSRGERAYDIYSRLCLKDRIIMLTGPVEDGMANSIIAQLFLFDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYLVPPTVIEQSSRGERAYDIYSRLCLKDRIIMLTGPVEDGMANSIIAQLFLFDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSVIAQLFLFDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSVIAQLFLFDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	1128051	FGL20 RS07055 WP 003083781.1	MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSIIAQLFLFDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS MIPVVIEQTSRGRERSYDIYSRLCLKDRIIMLTGPVEDNMANSIIAQLFLFDAQDNTKDIYLY IN SPGGSVSAG	80
NTDB id	1223	Cj0192c YP 002343650.1	MFIPYVIEKSSRGRERSYDIYSRLCLKDRIIMLTSGEIHDELAAASIVAQLFLFEADPTKDIYLY IN SPGGVITS	73
NTDB id	86	BSU 34540 NP 391334.1	MNL IPTVIEQTNRGERAYDIYSRLCLKDRIIMLTGSAIDDNVANSI VSQLLFLAEADPEKEISLY IN SPGGSITAG	74
consensus			**!*!*****!*****!*****!*****!*****!*****!*****!*****!*****!	

NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNNLEQ
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNNLEQ
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	KGKRFLMPNAEYMIHQPMGGTGCGTQQTDMAIAAEHLLKTRNTLEK
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGKRFLMPNAEYMIHQPMGGTGCGTQQTDMAIAAEHLLKTRNTLEK
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGKRFLMPNAEYMIHQPMGGTGCGTQQTDMAIAAEHLLKTRNTLEK
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGKRFLMPNAEYMIHQPMGGTGCGTQQTDMAIAAEHLLKTRNTLEK
NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYLIIHQPMGGAGQGQTQQTDMAIVAEQLLKTRKRLEQ
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYLIIHQPMGGTGQGTQQTDMAIVAEQLLKTRKRLEQ
NTDB id	446 Spym6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGCGTQQTDMAIAAEHLLKTRHRLEK
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGCGTQQTDMAIAAEHLLKTRHRLEK
NTDB id	1128051 FGL20 RS07055 WP 003083781.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYLIIHQPMGGAGSGTQQTDMAIVAEQLLKTRKRLEK
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGI AASMGTTI ASSGA	KGKRFLMPNAEYLIIHQPMGGTGCGTQQSDMAIAAEQLLKTRKKLEK
NTDB id	1223 Cj0192c YP 002343650.1	FSIYDTMNYIKPDVCITICIGQAASMGAFLLSCGAE	GKGRFALPNSRIMIHQPPLGGARG.. QATDIEIQAKEILRLKITLND	
NTDB id	86 BSU 34540 NP 391334.1	MAYIDTMCFIKPKVSJTICI GMAASMGAFLLAAGE	GKGRYA L P NSEVM IHQ PL GGAAQG .. QATE IE IAKARILL RDKL NK	
consensus		**!!**!!!!*	*!*****!	****!*!!!!!!!!!!!*****! ****!!*!*****! *****!***!!*** **

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 NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAKGTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAAQNAKGTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 1128051 FGL20 RS07055 WP 003083781.1	ILADNSGKTIKQIHKDAERDYWMDAKETLEYGFIDEIMENNELK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIIDEIMENNELK.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTKQKQVAKIAKDTERDFFMSAQEAKLEYGLIDKVLKFSFK.	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPLEVIERDTRDNEFKSAEEALEYGLIDKILTHTEDKK	197
consensus	*!***** * * * * ! * * * ! ! * * * ! * * * ! * * *	

 non conserved
 similar
 $\geq 50\%$ conserved