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NTDB id 324315 EFD52 RS03125 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLLKDRIIMLTGPPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLLKDRIIMLTGPPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 602 KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLLKDRIIMLTGPPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPTIEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPTIEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYSMIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDNTKDIYLYINSPPGGSVSAG	80
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSRGERSYDIYSRLLKDRIIMLTGPPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 1223 Cj0192c YP 002343650.1	MFIPYVIEKSSRGERSYDIYSRLLKDRIIMLTGPTIEDLAASIVAQLLFLAEADPTKDIYLYINSPPGGVITS	73
NTDB id 86 BSU 34540 NP 391334.1	MNLIPYVIEQTSRGERSYDIYSRLLKDRIIMLTGSAIDDNANSIVSQLLFLAEADPEKELISLYINSPPGGSITAG	74
consensus	***!!*!!!!**!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!	

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NTDB id 324315 EFD52 RS03125 WP 003129593.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	155
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	155
NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	155
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	152
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	152
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	152
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	152
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	152
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	152
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRNLEK	160
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRHRLK	152
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKSDVQTI VMGMAASMGTYIASSGAKKRFMLPNAEYMIHQPMGGTGGGTQQQTDMAIAAEHLKTRHRLK	152
NTDB id 1223 Cj0192c YP 002343650.1	FSIYDTMNYIKPDVCTICIGQAASMGAFLLSCGABGKRFALPNSRIMIHQPLGCGARG..QATDIEIQAKEILRLKTIIND	151
NTDB id 86 BSU 34540 NP 391334.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGRYALPNSEVMIHQPLGCAQC..QATEIEIAAKRIILLRDKLNK	152
consensus	***!!*!!!!**!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!	

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NTDB id 324315 EFD52 RS03125 WP 003129593.1	ILADNSNRSLEQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSLEQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSLEQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	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	ILAKNTIKQKVAKIAKDTERDFMSAQEAKKEYGLIDKYLEKSFK..	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPLEVIERDTRDNFKSABEALAYGLIDKILTHTEDK	197
consensus	*!***** *!!!!*!!!! *!!!! *!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!	

 non conserved
 similar
 $\geq 50\%$ conserved