

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPTEDNMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPTEDNMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIYLYVNTPGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	IIAQLFLDAQDN	TKDIIYLYINSPGGSVSAG	80
NTDB id 1223 Cj0192c YP 002343650.1	MFIP	YVIEKSSRGRERSYDIYSRLKDRIMLTGSETHDELAAS	IVAQLFLFEAEDP	TKDIIYLYINSPGGVITSG	73
NTDB id 225551 B7P25 RS14110 WP 000991625.1	MNA	IPYVVEQTKLGRERSYDIYSRLKDRIVITGSEINDQVASS	VVAQLFLFEAEDA	EKDIFLYINSPGGSTITAG	74
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIMLTGSAIDDNVANS	IVSQQLLFLAAED	PEKEISLYINSPGGSTITAG	74
consensus		*** ** * ** * ** *	*** ** * ** * ** *	*** ** * ** * ** *	

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSGTKGKRFMLPNAEYLHQPMMGGAGQGTTQTDMATVAEQLLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSGTKGKRFMLPNAEYLHQPMMGGTCQQGTQQTDMATVAEQLLKTRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSGTKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRNNLEQ	152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSGTKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRNNLEQ	152
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRNMLEK	152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRNMLEK	152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRNMLEK	152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGAKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRNMLEK	152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGTKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRHRLEK	152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGTKGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLKTRHRLEK	152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSGAKGKRFMLPNAEYLHQPMMGGTGGGTQCSDMAIAAEQLLKTRKKLEK	160
NTDB id	1223 Cj0192c YP 002343650.1	FSTVDTMNVIKPDVCIIICIGQAASMGAFILSCGAEGKRFALPNSEIMIHQPLGGARG..QATDIEIQAKEILLKKTIND	151
NTDB id	225551 B7P25 RS14110 WP 000991625.1	FATIDTMNLIKPDVQTLICMGFAASFCAALLLSCAKGKRFALPNSEIMIHQPLGGAAQ..QATEIEITAKRILLKHDKINK	152
NTDB id	86 BSU 34540 NP 391334.1	MAYIVDTMQFIKPKVSTIICIGMAASMGAFILAAGEKGKRYALPNSEVMIHQPLGGAAQ..QATEIEIAAKRIILLRDKLNK	152
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	330 STU RS11365 WP 002949732.1	ILADNSGQPTEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298 STER RS01925 WP 002949732.1	ILADNSGQPTEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	282 KZH43 RS03215 WP 000613477.1	ILAENSNGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246 SPD RS03495 WP 000613477.1	ILAENSNGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244 SPR RS03300 WP 000613477.1	ILAENSNGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242 SP RS03655 WP 000613477.1	ILAENSNGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAGKTIIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445 SPYM3 RS01720 WP 002985850.1	ILAAQNAGKTIIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQTHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1223 Cj0192c YP 002343650.1	ILAKNITKKVAKIAKDTERDFEWSAQEAKEYGLIDKVLKSFK..	194
NTDB id	225551 B7P25 RS14110 WP 000991625.1	MIAEKITGGPIERVAVHDTERTYFMTAEEAKAYGIIDDVVTKK...	193
NTDB id	86 BSU 34540 NP 391334.1	VLAERTGGPLEVIERDTRDRNFKSAAEALEYGLIDKILTHTEDKK	197
consensus		*** ** ***** ** **** !**** !**** !**** ** **** ** *	

 non conserved
 similar
 $\geq 50\%$ conserved