

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL VPTVIEQSSRGERAYDIYSRLKDR IIMLTGPVEDGMANSIIAQLFLDA QDNTKD IYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL VPTVIEQSSRGERAYDIYSRLKDR IIMLTGPVEDGMANSIIAQLFLDA QDNTKD IYLYVNTPGGSVSAG	75
NTDB id	284565 C9I44 RS02100 WP 003134020.1	MGYL VPTVIEQSSRGERAYDIYSRLKDR IIMLTG ^Q VEDGMANSIIAQLFLDAQDS TKDI YLYN TPGGSVSAG	75
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGPVEDNMANS VIAQL FL DAQDS TKDI YLY VN TP GG SV S AG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGPVED NMANS VIA QL FL D AQ DS TKDI Y LY VN TP G GS VS A G	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGPVED NMANS VIA QL FL D AQ DS TKDI Y LY VN TP G GS VS A G	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGPVED NMANS VIA QL FL D AQ DS TKDI Y LY VN TP G GS VS A G	72
NTDB id	330 STU RS11365 WP 002949732.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGP ^I EDNMANS II AQL FL DA QDN TKDI Y LY VN TP GG SVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGP ^I EDNMANS II AQL FL DA QDN TKDI Y LY VN TP GG SVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGPVED NMANS VIA QL FL D AQ DN TKDI Y LY VN TP G GS VS A G	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVV IEQT SRGERSY DIYSRLKDR IIMLTGPVED NMANS VIA QL FL D AQ DN TKDI Y LY VN TP G GS VS A G	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYSMIPVV IEQT SRGERSY DIYSRLKDR IIMLTGPVED NMANS II AQL FL DA QDNTKD IYLY INSPGGSVSAG	80
NTDB id	86 BSU 34540 NP 391334.1	MNLI PTVI EQTN RGE AYDIYSRLKDR IIML TSA IDNV ANSI VS QLL F LA AE DP E KE IS LYN SP GG SITAG	74
NTDB id	1223 Cj0192c YP 002343650.1	MFIPYV IEKS RGERSY DIYSRLKDR IIMLS GEIHDELAAASIV AQL FL EAEDP TKDI YLY IN SP GG VI TS G	73
consensus		**!*! * ! !! **!! !!! *!!!!!!! ****!!**!! ***!!***!!*****!	

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	LIHQPMGGAGQGTTQTDMIAIVAEQLLKRTRRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	LIHQPMGGTGQGTQTQTDMIAIVAEQLLKRTRRLEQ	155
NTDB id	284565 C9I44 RS02100 WP 003134020.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTIIASSGT	TGKGRFMLPHAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRRTLEK		155
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRNTLEK		152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRNTLEK		152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRNTLEK		152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGA	AKGGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRNTLEK		152
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRNNLEQ		152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRNNLEQ		152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRHRLEK		152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTQTDMIAAAEHLLKTRHRLEK		152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTIIASSGT	AKGGRFMLPNAEYL	LIHQPMGGTGGGTQQSDMAIAAEQLLKTRKKLEK	160
NTDB id	86 BSU 34540 NP 391334.1	MATIDTMCFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATEIEIAAKRIILLRDKNLNK				152
NTDB id	1223 Cj0192c YP 002343650.1	FSLIIDTMNYIKPDVCTICIGQAASMGAFILSCGAEGKRFRALPNSRIMIHQPLLGGARG..QATDIEIQAKEIRLRKTILND				151
consensus		**!!!!!! *!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!***** !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! *****!****!				

NTDB id	602 KW2 RS03060 WP 011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611 V4T04 RS07970 WP 003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	284565 C9I44 RS02100 WP 003134020.1	ILAENSQGSMKVVHADAERDNWMTAQETLDYGFIDEIMEANSLK.	199
NTDB id	282 KZH43 RS03215 WP 000613477.1	ILAENSQGSMKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246 SPD RS03495 WP 000613477.1	ILAENSQGSMKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244 SPR RS03300 WP 000613477.1	ILAENSQGSMKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242 SP RS03655 WP 000613477.1	ILAENSQGSMKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	330 STU RS11365 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298 STER RS01925 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445 SPYM3 RS01720 WP 002985850.1	ILAAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	86 BSU 34540 NP 391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223 Cj0192c YP 002343650.1	ILAKNITKQKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK..	194
consensus		*!*****!!***!!****!*!*****!?!*!*****	

 non conserved
 similar
 $\geq 50\%$ conserved