

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU RS11365 WP 002949732.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TCKDIYLYINSPGGSVSAG	80
NTDB id	202924	BK049 RS11290 WP 008361979.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDNDVNANSIVSQLLFLEADPEKDISEIYNISPPGGSITAG	74	
NTDB id	86	BSU 34540 NP 391334.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDNDVNANSIVSQLLFLAAEADPEKEISLYINSPPGGSITAG	74	
NTDB id	1223	Cj0192c YP 002343650.1	MFIPY	VIEKSSRGERSYDIYSRLKDRIIMLSGEIHDELGAASIVAQLFLFEADPTCKDIYLYINSPGGVITS	G	73
consensus						**!*!*****!!**!!!***!!****!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYL	LHQPMGGAGCQTQQTDMAIVAEQLLKRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYL	LHQPMGGTGCGTQQTDMAIVAEQLLKRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNNLEQ		152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHLHLLKTRNNLEQ		152
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNTLEK		152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHLHLLKTRNTLEK		152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHLHLLKTRNTLEK		152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHLHLLKTRNTLEK		152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHLHLLKTRHRLEK		152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAHLHLLKTRHRLEK		152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSGT	AEGKRFMLPNAEYL	LHQPMGGTGGGTQQSDMAIAAEQLLKTRKKLEK	160
NTDB id	202924 BK049 RS11290 WP 008361979.1	MAIYDTMQFIKPVKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATIEIEIAAKRILSLRDKLNQ				152
NTDB id	86 BSU 34540 NP 391334.1	MAIYDTMQFIKPVKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATIEIEIAAKRIILLRLDKLNK				152
NTDB id	1223 Cj0192c YP 002343650.1	FSAIYD TMNYIKP DVCVTICIGQAASMGAFLLSCGAEGKRFALPNSRIMIHQPLGLGAR.G.QATDIEIQAKEILRLKITLND				151
consensus		**! ! * ! ! * ! ! *	* ! ! * ! ! * ! ! * ! ! * ! ! * ! ! * ! ! * ! ! * ! ! * ! ! * ! ! * ! ! * ! ! *	*		* ! ! *

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQIHKDAERDHWMDAK	ETLEYGFIDEIMENNSLK..	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERDHWMDAK	ETLEYGFIDEIMENNSLK..	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQ	ETLEYGFIDEIMTNNQLK..	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	EKVHVDAERDNWMSAQ	ETLEYGFIDEIMTNNQLK..	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NSGQSM	EKVVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQSM	EKVVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQSM	EKVVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQSM	EKVVHADAERDNWMSAQ	ETLEYGFIDEIMANNSLN..	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAKGT	IKQIHKDAERDYWMSAE	ETLAYGFIDEIMENNELK..	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAAQNAKGT	IKQIHKDAERDYWMSAE	ETLAYGFIDEIMENNELK..	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTI	IKQIHKDAERDYWMDAK	ETLKYGFIDEIMENNELK..	204
NTDB id 202924 BK049 RS11290 WP 008361979.1	VLSERTGQPI	EVIERDTRDRNFKTAE	EALYGLIDKVLTRNTDEQK	198
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPI	EVIERDTRDRNFKSAE	EALYGLIDKILTHTEDKK.	197
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQKV	IAKDTERDFFMSAQ	EAKYGLIDKVLKSFK...	194
consensus	*****	*****	*****	

 non conserved
 similar
 $\geq 50\%$ conserved