

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLLFDAQDN	NTKDIIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLLFDAQDN	NTKDIIYLYVNTPGGSVSAG	75
NTDB id	330	STU RS11365 WP 002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPIEDNMANS	IIAQLLFDAQDN	NTKDIIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPIEDNMANS	IIAQLLFDAQDN	NTKDIIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLLFDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLLFDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLLFDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLLFDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLLFDAQDN	NTKDIIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLLFDAQDN	NTKDIIYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	IIAQLLFDAQDN	NTKDIIYLYINSPGGSVSAG	80
NTDB id	1223	Cj0192c YP 002343650.1	MFIPV	YVIEKSSRGRSYDIYSRLKDRIMLTGSETHDELAAS	IIVAQLLFLAEADP	NTKDIIYLYINSPGGVLITSG	73
NTDB id	67183	KNN RS15460 WP 060852065.1	MNAIP	YVVEQTKLGRSYDIYSRLKDRIMLTIGSEINDQVAS	SVVAQLLFLAEADA	EKKDIFLYINSPGGSTITAG	74
NTDB id	86	BSU 34540 NP 391334.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIMI	GSAIDNIVANS	IVSQLLFLAAEDPEKEISLYINSPGGSTITAG	74
consensus							
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NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYL	LHQPMMGGAG	CGGTQQTDMAI	VAEQLLKR	KRLEQ	155
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYL	LHQPMMGGTC	CGGTQQTDMAI	VAEQLLKR	KRLEQ	155
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRNN	LEQ	152
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRNN	LEQ	152
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRN	LEK	152
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRN	LEK	152
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRN	LEK	152
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRN	LEK	152
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRHR	LEK	152
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMI	HQPMGGTGGGT	QQTDMAIAA	EHLKTRHR	LEK	152
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTVIASSGA	KGKRFMLPNAEYL	LHQPMMGGTGGGT	QCSDMAIAA	EQLLKRKK	LEK	160
NTDB id 1223 Cj0192c YP 002343650.1	FSTVDTMNVYKIPDVCTICIGQAASMGAFIL	LSCGAEGKRFLPN	SRI	MHQPLGGA	R...CATDIEIQAKEIL	BLKTIIND	151
NTDB id 67183 KNN RS15460 WP 060852065.1	FATIDTMNLKIPDVQTLCMGFAASF	GALLLSGAKGKRFALPNSEI	MHQPLGGA	QG...QATEIEITAKRILL	QLKHDINK		152
NTDB id 86 BSU 34540 NP 391334.1	MAIVDTMQFIKPKVSTICIGMAASMGAFILA	AGEKGRFYALPNSEVM	HQPLGGA	QG...QATEIEIAAKRILL	LRDKLNK		152
consensus	**+*+**++*+***+*+*****+*+*****+*+*****+*+*****+*+*****+*+*****+*						

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQTHKDAERD	HWMDAKETLEYGFIDEIMENNSL	199	
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQTHKDAERD	HWMDAKETLEYGFIDEIMENNSL	199	
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQP	IEKVHVD	DAERDNWMSAQETLEYGFIDEIMTNNQL	196	
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQP	IEKVHVD	DAERDNWMSAQETLEYGFIDEIMTNNQL	196	
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NSGQ	SMEKVH	DAERDNWMSAQETLEYGFIDEIMANNSL	196	
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NSGQ	SMEKVH	DAERDNWMSAQETLEYGFIDEIMANNSL	196	
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NSGQ	SMEKVH	DAERDNWMSAQETLEYGFIDEIMANNSL	196	
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NSGQ	SMEKVH	DAERDNWMSAQETLEYGFIDEIMANNSL	196	
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNA	GKTIKQTHKDAERD	YWMSAEETLAYGFIDEIMENNEL	196	
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNA	GKTIKQTHKDAERD	YWMSAEETLAYGFIDEIMENNEL	196	
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGK	TIKQTHKDAERD	YWMDAKETLKYGFIDEIMENNEL	204	
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNT	KQKVAKIAKD	TERDFEWSAQEAKEYGLIDKVL	194	
NTDB id 67183 KNN RS15460 WP 060852065.1	MTAEK	TGQPLE	ERVAVHDT	RDYFMAEEAKAYGI	193
NTDB id 86 BSU 34540 NP 391334.1	VLAERT	TGQPLE	VI	ERDTRDNFKSAEEALEYGLIDKIL	197
consensus	*****	*****	*****	*****	

 non conserved
 similar
 $\geq 50\%$ conserved