

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPTEEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDRIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSRGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYINSPGGSVSAG	80
NTDB id	251870	CG483	RS10910	WP	094374228.1	MNTI	PYVVEQTKLGERSYDIYSRLKDRIVMIGSEINDQVASN	VVAQLLFLEAEDA EKDFLYINS PGGSTTAG	74
NTDB id	86	BSU	34540	NP	391334.1	MNLIP	TVPVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNDLVANS	IVSQLLFLAAEDPEKEISLYINS PGGSTITAG	74
NTDB id	1223	Cj0192c	YP	002343650.1	MFIPY	VIEKSSRGRSYDIYSRLKDRIIMLS GEIHDELAAAS	IVAQLLFLEAEDP TKDIYLYINS PGGVITSG	73	
consensus									**!*!?!?*****!!*!!!!!!!!!!!!!!*!!!!!!!*!!!!!!*!****!!*!!!!!!*!***!!*

NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	TGKGRFMLPNAEYL	LIHQPMGGA	AGQGTQQTDM	IAIVAEQ	LLKTRKR	LEQ	155
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	TGKGRFMLPNAEYL	LIHQPMGGT	GGQGTQQTDM	IAIVAEQ	LLKTRKR	LEQ	155
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	TGKGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRNN	LEQ	152
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	TGKGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRNN	LEQ	152
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	AKGGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRNT	LEK	152
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	AKGGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRNT	LEK	152
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	AKGGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRNT	LEK	152
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	AKGGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRNT	LEK	152
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	TGKGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRHR	LEK	152
NTDB id 445 SPY3 RS01720 WP 002985850.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	TGKGRFMLPNAEYMI	HIQPMGGT	GGGTQQTDM	IAAAEHL	LKTRHR	LEK	152
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSG	AKGGRFMLPNAEYL	LIHQPMGGT	GGGTQQTDM	IAAAEHL	LKTRKK	LEK	160
NTDB id 251870 CG483 RS10910 WP 094374228.1	FAIVDTMNLIKP	DVQTI	CMGLAAS	FGALL	LLSG	TGKGRFALPNS	SEIMIHQPL	GGAGK	..QATEIEITAKR	IVKLLKQDINN	152
NTDB id 86 BSU 34540 NP 391334.1	MAIVDTMCFIKPKV	STIC	GMAASMG	AFL	LAA	GEKGKRYALPNS	SEVMIHQPL	GGAGG	..QATEIEIAAKR	ILLRDLKLNK	152
NTDB id 1223 Cj0192c YP 002343650.1	FSIYDTMNYIKP	DVCTI	CIGQAASMG	AFL	LLSC	GAEGKRFALPNS	RIIMIHQPL	GGARG	..QATDIEIQAKE	ILLRDLKLN	151
consensus	***!!!!**!	*!*	*****!	***!	*!*	*****!	***!	*!*	*****!	***!	***

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSLQTHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLQTHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	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	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQTHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	251870	CG483	RS10910	WP	094374228.1	IISDRITGGPTEKVARDTTERDYFMAAEEAKTYGVIVDAVITKK...	193
NTDB id	86	BSU	34540	NP	391334.1	VLAERTITGGPLEVIERDTDRDNFKSAEAEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	FLAKNRTIKQKVAKIAKDTERDFFMSAQEAKEYGLIDKVLKSFK..	194	
consensus						* ** * * * * * * * * ! * * * ! * * * ! * * * ! * * * ! *	

 non conserved
 similar
 $\geq 50\%$ conserved