

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTG	PVEDGMANSIIAQLFLD	AQDN	TKDIYLYVNT	PGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTG	PVEDGMANSIIAQLFLD	AQDN	TKDIYLYVNT	PGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PIEDNMANSIIAQLFLD	AQDN	TKDIYLYVNT	PGGSVSAG
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PIEDNMANSIIAQLFLD	AQDN	TKDIYLYVNT	PGGSVSAG
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PVEDNMANSVIAQLFLD	AQDS	TKDIYLYVNT	PGGSVSAG
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PVEDNMANSVIAQLFLD	AQDS	TKDIYLYVNT	PGGSVSAG
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PVEDNMANSVIAQLFLD	AQDS	TKDIYLYVNT	PGGSVSAG
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PVEDNMANSVIAQLFLD	AQDS	TKDIYLYVNT	PGGSVSAG
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PVEDNMANSVIAQLFLD	AQDN	TKDIYLYVNT	PGGSVSAG
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PVEDNMANSVIAQLFLD	AQDN	TKDIYLYVNT	PGGSVSAG
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTG	PVEDNMANSIIAQLFLD	AQDN	TKDIYLY	INSPGGSVSAG
NTDB id 1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGRS	YDIYSRLKDRIIIMLTG	SEIHDELAASIVAQLFL	EAEDP	TKDIYLY	INSPGGVITSG
NTDB id 49901 L6490 RS15490 WP 236788563.1	MNA	IPYVVEQTKLGRS	YDIYSRLKDRIIIMLTG	SEINDQVASSVVAQLFL	EAEDA	EKDI	FLYINSPGGSTITAG
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLTG	SAIDNVANSIVS	QLFLA	EADEP	KEISLY	INSPGGSTITAG
consensus		*****	*****	*****	*****	*****	*****

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQP	MGGAGQG	TQQTDMAI	VAEQ	LLKTRKR	LEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQP	MGGTGQG	TQQTDMAI	VAEQ	LLKTRKR	LEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNN	LEQ	152				
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNN	LEQ	152				
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNT	LEK	152				
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNT	LEK	152				
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNT	LEK	152				
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRNT	LEK	152				
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRHR	LEK	152				
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAAEHLLKTRHR	LEK	152				
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGTAASMG	TIASSG	AKGGRFMLPNAEYL	LHQP	MGGTGGGTQQ	SDMAIAAEQ	LLKTRKK	LEK	160	
NTDB id	1223	Cj0192c	YP	002343650.1	F	SIYDTMN	YIKP	DVQTCICIGQAASMGAFIL	LS	SCGAEGKRFALPN	SRI	MIHQPLGGARG..	QATDIEIQAKE	IIRL	KIT	LND	151
NTDB id	49901	L6490	RS15490	WP	236788563.1	FAILD	TMNLIKP	DVQTCICMGFAASF	GALL	LLSGAKGGRFALPN	SE	MIHQPLGGAGK..	QATEIEITAKR	ILKL	KHD	IN	152
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKP	PKVST	TCIGMAASMGAFLLAAGE	KGKRYALPN	SE	MIHQPLGGAQK..	QATEIEIAAKR	ILL	RDK	LNK	152	
consensus						**!*!!!!!!	*!*	*****!	*!*	*****!	*!*	*****!	*!*	*****!	*!*	*****!	*!*

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNNQLK.	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	ILAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQKVAKIAKDTERDFFMSAQEAKLEYGLIDKIVLEKSFK..	194
NTDB id 49901 L6490 RS15490 WP 236788563.1	MTAEKTIQGPIERVAHDTTERDYFMTAEAKAYGIVDDIVTKK....	193
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPLEVIERDTERDNFKSAEEALEYGLIDKILTHTEDKK	197
consensus	***** !*** !**** !**** !**** !**** !**** !**** !****	

 non conserved
 similar
 $\geq 50\%$ conserved