

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVEDGMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	75
NTDB id	330	STU RS11365 WP 002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPIEDNMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPIEDNMANS	IIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDS	STKDIIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGERSYDIYSRLKDRIMLTGPVEDNMANS	IIAQLFLDAQDN	TKDIIYLYINSPGGSVSAG	80
NTDB id	1223	Cj0192c YP 002343650.1	MFIPV	YVIEKSSRGRSYDIYSRLKDRIMLSETHDELAAAS	IVAQLLFLEAEDP	TKDIIYLYINSPGGVLITSG	73
NTDB id	170191	AXW78 RS13485 WP 000991610.1	MNAIP	YVVEQTKLGERSYDIYSRLKDRIMLIGSEINDQVASS	VVAQLLFLEAEDA	EKDIPLYINSPGGSTITAG	74
NTDB id	86	BSU 34540 NP 391334.1	MNLIP	TVIEQTNRGERAYDIYSRLKDRIMI	GSAIDNNVANS	IVSQLLFLAEADPEKEISLYINSPGGSLTAG	74
consensus							
				** * * * *	* * * * *	* * * * *	

NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNF	IKSDVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	L	I	HQPM	GG	A	G	GT	QQT	D	M	A	I	V	A	E	Q	L	L	K	T	R	K	R	L	E	Q	155																																										
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNF	IKSDVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	L	I	HQPM	GG	T	Q	GT	QQT	D	M	A	I	V	A	E	Q	L	L	K	T	R	K	R	L	E	Q	155																																										
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	N	N	L	E	Q	152																																										
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNF	IKSDVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	N	N	L	E	Q	152																																										
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	N	T	L	E	K	152																																										
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	N	T	L	E	K	152																																										
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	N	T	L	E	K	152																																										
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNF	IKADVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	N	T	L	E	K	152																																										
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	H	R	L	E	K	152																																										
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNF	IKADVQTI	VMGMAAS	MG	TI	ASSG	TGKGRF	MPLP	NAEY	M	I	HQPM	GG	T	GG	T	QQT	D	M	A	I	A	A	E	H	L	L	K	T	R	H	R	L	E	K	152																																										
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNF	IKSDVQTI	VMG	TI	ASSG	TGKGRF	MPLP	NAEY	L	I	HQPM	GG	T	GG	T	Q	Q	S	D	M	A	I	A	E	Q	L	L	K	T	R	K	K	L	E	K	160																																										
NTDB id 1223 Cj0192c YP 002343650.1	FS	I	Y	D	T	M	N	I	K	P	D	V	C	T	I	C	I	G	A	A	S	M	G	A	F	L	L	S	C	G	A	E	G	K	R	F	A	L	P	N	S	R	I	M	I	H	Q	P	L	G	G	A	R	G	..	C	A	T	D	I	E	I	Q	A	K	E	L	I	L	K	T	I	L	N	D	151		
NTDB id 170191 AXW78 RS13485 WP 000991610.1	F	A	I	Y	D	T	M	N	L	I	K	P	D	V	Q	T	L	C	M	G	F	A	A	S	F	G	A	L	L	L	S	G	A	E	G	K	R	F	A	L	P	N	S	E	I	M	I	H	Q	P	L	G	G	A	Q	..	C	A	T	E	I	E	I	T	A	K	R	L	L	K	L	K	H	D	I	N	K	152
NTDB id 86 BSU 34540 NP 391334.1	M	A	I	Y	D	T	M	Q	F	I	K	P	K	V	S	T	I	C	I	G	M	A	A	S	M	G	A	F	L	L	A	E	G	K	G	R	F	A	L	P	N	S	E	V	M	I	H	Q	P	L	G	G	A	Q	..	C	A	T	E	I	E	I	A	A	K	R	L	L	L	R	D	K	L	N				

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL EQ THKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL EQ THKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPTEK VH VDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPTEK VH VDAERDNWMSAQETLEYGFIDEIMTNNQLK.	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NS SGQSMEK VH ADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NS SGQSMEK VH ADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NS SGQSMEK VH ADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NS SGQSMEK VH ADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNA GK TIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNA GK TIKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSD NS GKTIKQTHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQKVAKIAKDTERDFFMSAQEAK EYGLIDK VLEKSFK..	194
NTDB id 170191 AXW78 RS13485 WP 000991610.1	MTAEK TG QPTE RV AHDT ER YFMTAE EAKAYGI VD DV VTKK...	193
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPLEVIERD TD RDNFKSAEEALEYGLIDKILTHTEDKK	197
consensus	***A***T***G***P***L***E***V***I***E***R***D***N***F***K***S***A***E***A***L***E***Y***G***L***I***D***K***I***L***T***H***T***E***D***K***K	

 non conserved
 similar
 $\geq 50\%$ conserved