

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	330	STU	RS11365	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSIIAQLFLDQAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id	81806	QZ67	RS00980	WP	002806309.1	MFIP	YVIEKSSRGERSYDIYSRLKDRIIIMLSGEIHDELAASIVAQLLFLAEADP	TKDIYLYINSPGGVITSG	73
NTDB id	1223	Cj0192c	YP	002343650.1	MFIP	YVIEKSSRGERSYDIYSRLKDRIIIMLSGEIHDELAASIVAQLLFLAEADP	TKDIYLYINSPGGVITSG	73	
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLSAIDDNVANSIVSQLLFLAAEADPEKEISLYINSPGGSI TAG	74	
consensus						*****	***!****!!**!*!!!!!!*!!!!!!!!!!!!!!*!!!!!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*		

NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNF	IKS	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	TG	KR	F	M	L	P	N	A	E	Y	L	I	H	Q	P	M	G	G	A	G	Q	T	Q	T	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	IKS	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	TG	KR	F	M	L	P	N	A	E	Y	L	I	H	Q	P	M	G	G	T	G	Q	T	Q	T	D	M	A	I	V	A	E	Q	L	L	K	T	R	K	R	L	E	Q	155										
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNF	IKA	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	A	K	G	R	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	D	M	A	I	A	A	E	H	L	L	K	T	R	N	T	L	E	K	152								
NTDB id 246 SPZ RS03495 WP 000613477.1	LAIVDTMNF	IKS	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	A	K	G	R	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	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	IKA	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	A	K	G	R	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	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	IKA	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	A	K	G	R	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	D	M	A	I	A	A	E	H	L	L	K	T	R	N	T	L	E	K	152								
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNF	IKS	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	TG	KR	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	Q	T	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	IKS	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	TG	KR	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	Q	T	D	M	A	I	A	A	E	H	L	L	K	T	R	N	N	L	E	Q	152								
NTDB id 446 SpY6JR54 RS01695 WP 002985850.1	LAIVDTMNF	IKA	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	TG	KR	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	Q	T	D	M	A	I	A	A	E	H	L	L	K	T	R	H	R	L	E	K	152								
NTDB id 445 SPY3 RS01720 WP 002985850.1	LAIVDTMNF	IKA	DVQ	TIVM	GMAAS	MG	T	I	ASS	G	TG	KR	F	M	L	P	N	A	E	Y	M	I	H	Q	P	M	G	G	T	G	G	T	Q	T	Q	T	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	IKS	DVQ	TIVM	G	T	A	A	S	M	G	T	I	A	A	S	G	A	K	G	R	F	M	L	P	N	A	E	Y	L	I	H	Q	P	M	G	G	T	G	G	T	Q	Q	S	D	M	A	I	A	A	E	Q	L	L	K	T	R	K	K	L	E	K	160
NTDB id 81806 QZ67 RS00980 WP 002806309.1	F	S	I	Y	D	T	M	N	Y	I	K	P	D	V	C	T	I	C	I	G	Q	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	..	Q	A	T	D	

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSGQSMEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEBETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEBETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	81806	QZ67	RS00980	WP	002806309.1	ILAKNTKKQVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK..	194
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTKKQVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK..	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKAEEALEYGLIDKILTHTEDKK	197
consensus						*!*****!!**!* **!* **!* **!* **!* **!	

 non conserved
 similar
 $\geq 50\%$ conserved