

NTDB id	1177 A1552VC RS01165 WP 000422572.1	MELNQYL DGM LTHK ASDLYITTVGAPILY RVDGE LRAQGE. ALSVADV TALLHAMDDARQA EFK QTR EAN	69
NTDB id	1162910 ABNR97 RS03825 WP 003704392.1	MFTDENMTAKE ELFAWL RHMN KKN GSDLFVTITHFP PAMKL DGKITRITDPELTA EKCMETAFS IMSAKQAE EFSSSTNECN	80
NTDB id	1203 PSJM300 01605 AFN76401.1	MEFEK LLRLM VEKG GSDLFITAGVP SSMKVNGK ILP VNKTP SPEMTRET VHGV MNE QRREFT ENHECN	70
NTDB id	1019 ACIAD RS04205 WP 004922051.1	MFEND LLNLMAKHK ASDLFITAGVEPS LKINGEITPV SKTKL LGDM IACLIDS ITTQKRQRQE FIEHTECN	70
NTDB id	1307 DR RS10055 WP 010888596.1	MTSGIDITD ILRLAADKG ASDIILAAGLP PQFKLSGD YDAQGFEPL SASDTRKLMYS MNERQQRI FE EKRELD	74
NTDB id	1086 NMV RS00245 WP 002218487.1	MQITDLLA FGA KNK ASDLHLSSGISPMIRVHG DMRRINLPESAAEEVGNMVTSVMNDHQ RKIYQQNL EVD	70
NTDB id	1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNK SSDLHISAGMP PMIRVDGLRK INLPLEHKDV IKIIYDIMNDRQRKEY EEFFETD	70
NTDB id	1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNK SSDLHISAGMP PMIRVDGLRK INLPLEHKDV IKIIYDIMNDRQRKEY EEFFETD	70
NTDB id	1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKGG ASDLHLSAGLPPMIRVDG DVRRINLPLEHKDVHALIY DIMNDKQRKDFEEFLET	70
NTDB id	1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKGG ASDLHLSGLPPMIRVDG DVRRINLPAMD HKQVHALIY DIMNDKQRKDFEEFLET	70
NTDB id	1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNR ASDLHLSAGIPPMIRVDGEVRRINLPAMD HSEVHNLIY DIMNDKQR RDYEKKLET	70
NTDB id	1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNG ASDLHLSAGMP PMIRVDGEVRRINLPAL EHKDVHRLVY DIMNDKQR RDYEKKLET	70
NTDB id	1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNG ASDLHLSAGMP PMIRVDGEVRRINLPAL EHKDVHRLVY DIMNDKQR RDYEKKLET	70
NTDB id	1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNG ASDLHLSAGMP PMIRVDGEVRRINLPAL EHKDVHRLVY DIMNDKQR RDYEKKLET	70
consensus		*****!***** *!* ***** !***** *!***** ***** !**	

NTDB id	1177 A1552VC RS01165 WP 000422572.1	F	A	V	V	R	D	.	S	C	R	F	R	V	S	A	F	F	Q	R	E	L	P	.	G	A	V	I	R	R	T	E	T	R	I	P	T	F	E	E	L	K	L	P	E	V	L	Q	N	.	A	I	A	K	R	G	L	V	L	V	G	A	T	G	S	G	K	S	T	T	M	A	A	M	T	G	Y	R	N	Q	
NTDB id	1162910 ABNR97 RS03825 WP 003704392.1	F	A	I	S	L	P	D	.	T	S	R	F	R	V	N	A	M	I	Q	R	G	A	T	A	L	V	F	R	A	I	T	S	K	I	P	K	F	S	E	N	L	P	P	A	L	K	D	V	A	L	K	R	G	L	V	I	F	V	G	G	T	G	S	G	K	S	T	S	L	A	S	L	I	D	Y	R	N	E		
NTDB id	1203 PSJM300 01605 AFN76401.1	F	A	I	S	A	R	G	.	I	G	R	F	R	V	S	A	F	Y	Q	R	N	L	A	G	M	V	L	R	R	I	E	T	I	N	I	P	T	I	E	D	L	K	L	P	D	V	L	K	L	A	L	T	K	R	G	L	V	I	F	V	G	A	T	G	T	G	K	S	T	S	L	A	A	M	T	G	Y	R	N	K
NTDB id	1019 ACIAD RS04205 WP 004922051.1	F	A	I	L	N	R	E	K	N	R	F	R	V	S	A	F	Q	R	D	M	P	G	M	V	I	R	R	I	E	T	K	I	P	S	P	D	I	L	H	L	P	P	I	L	K	E	L	A	M	S	K	R	G	I	I	F	S	G	A	T	G	T	G	K	S	T	S	L	A	M	I	Q	H	R	N	Q				
NTDB id	1307 DR RS10055 WP 010888596.1	F	S	F	A	L	G	D	.	K	A	R	F	R	V	N	A	F	M	Q	R	G	N	V	G	G	V	M	R	L	I	P	T	I	V	R	T	I	A	E	M	G	L	P	Q	T	V	I	D	I	A	N	A	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	S	M	I	D	H	I	N	T	
NTDB id	1086 NMV RS00245 WP 002218487.1	F	S	F	E	L	P	N	.	V	A	R	F	R	V	N	A	F	N	I	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E	
NTDB id	1283 ACE117W RS02630 WP 010947729.1	F	S	F	E	I	A	N	.	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S		
NTDB id	1259 GC085 RS10305 WP 010947729.1	F	S	F	E	I	A	N	.	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S		
NTDB id	1194 PAKAF RS01995 WP 003084552.1	F	S	F	E	V	P	G	.	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	K	V	L	T	M	E	E	L	G	M	G	E	V	F	K	R	V	S	D	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	D	Y	I	N			
NTDB id	1202 PSJM300 01600 AFN76400.1	F	S	F	E	V	P	G	.	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A																																																									

NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	HRTGHILTV	EDPIEFV	HEHKRC	IVTQ	REVL	GLD	TES	Y	E	V	A	L	K	N	S	L	R	Q	A	P	D	M	I	L	G	E	I	R	S	R	E	T	M	E	Y	A	M	T	F	A	E	T	G	H	L	C	M	A	T	L	H	227		
NTDB	id	1162910	ABNR97	RS03825	WP	003704392.1	NSFGHIIT	IEDPIEFV	HEHKNC	IITQ	REVL	GV	D	TEN	M	A	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	I	R	D	R	E	T	M	D	Y	A	I	A	F	A	E	T	G	H	L	C	M	A	T	L	H	239		
NTDB	id	1203	PSJM300	01605	AFN	76401.1	NSSGGH	ISIEDPIEF	IHQHQN	CIVTQ	REVL	GID	TDS	F	E	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	V	R	T	R	E	T	M	D	H	A	F	A	E	T	G	H	L	C	L	A	T	L	H	229					
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	HSKGHIIT	IEDPIEF	IHEHAG	CIIITQ	REVL	GID	TDS	F	E	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	I	R	S	R	E	V	M	D	Y	A	L	A	F	A	E	T	G	H	L	V	F	A	T	L	H	230			
NTDB	id	1307	DR	RS10055	WP	010888596.1	TKKLHILT	IEDPIEF	MHPN	KAS	IINQ	REV	GSD	TLS	F	D	D	A	L	R	A	L	R	Q	A	P	D	V	I	L	G	E	M	R	D	P	E	T	I	G	A	A	V	T	A	A	E	T	G	H	L	V	M	G	T	L	H	233		
NTDB	id	1086	NMV	RS00245	WP	002218487.1	TQPAHILT	IEDPIEFV	HQSK	SLIN	QRE	L	HQ	TLS	F	A	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	G	E	M	R	D	P	E	T	I	G	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	229	
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	SR	YEHILT	VEDPIEFV	HQSK	CLVN	QRE	VH	KD	TLS	F	N	A	L	R	S	A	L	R	E	D	P	D	I	I	L	G	E	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H	229		
NTDB	id	1259	GC085	RS10305	WP	010947729.1	SR	YEHILT	VEDPIEFV	HQSK	CLVN	QRE	VH	KD	TLS	F	N	A	L	R	S	A	L	R	E	D	P	D	I	I	L	G	E	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H	229		
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1	TK	YHHILT	IEDPIEFV	HESK	CLVN	QRE	VH	RDT	LG	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	229
NTDB	id	1202	PSJM300	01600	AFN	76400.1	TK	YHHILT	IEDPIEFV	HESK	CLVN	QRE	VH	RDT	LG	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	229
NTDB	id	1020	ACIAD	RS04210	WP	011182164.1	HR	YDHILT	VEDPIEFV	HEPK	CLIN	QRE	VH	RDT	LG	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	229
NTDB	id	1081	FDQ49	RS05335	WP	006581387.1	NR	YDHILT	VEDPIEFV	HQSK	CLIN	QRE	VH	RDT	HG	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	G	E	M																									

 non conserved
 similar
 $\geq 50\%$ conserved