

NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYL DGM LTHK ASDLY ITTVGAPILY RVDGEL RAQGE. ALSVADV TALLHAM D DARQAE FFKQ TREAN	69
NTDB id 48062 NMBH4476 RS07920 WP 002225431.1	MFTDENMTAKE ELFAWL RHMNQNK GSDLFV ITTHFP PAMKLDGKITRITDEPLTAEKCMELAFSLMSAKQAEFSSTNECN	80
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMLVEKG GSDLFITAGVPPSMKVNGKILP VNKTPM SPEMTRET VHGVMNEQQRREFTENHECN	70
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHK ASDLFITAGVEPSL KINGEITPVSKTKL DGM IACLIDS ITTQKQRQEFIEHECN	70
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKG ASDIILAAGLP PQFKLSGDYDAQGFEP LSASTRKLYMSMNERQQRIFEEKRELD	74
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNK ASDLHLSSGISPMIRVHGD MRRINLPESAE EGVNMVTSVMNDHQRKIYQQNL EVD	70
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNK SSDLHISAGMPPMIRVDGDLRKINLPLEHKDVIKI IYDIMNDRQRKEYEEFFETD	70
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNK SSDLHISAGMPPMIRVDGDLRKINLPLEHKDVIKI IYDIMNDRQRKEYEEFFETD	70
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQG ASDLHLSAGLPPMIRVDG DVERRINLPLEHKDVHALIYDIMNDKQRKDFEEFLETD	70
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQG ASDLHLSGLPPMIRVDG DVERRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETD	70
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNR ASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQR RDYEEKLETD	70
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNG ASDLHLSAGMPPMIRVDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYEEKLETD	70
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNG ASDLHLSAGMPPMIRVDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYEEKLETD	70
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNG ASDLHLSAGMPPMIRVDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYEEKLETD	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	48062	NMBH4476 RS07920 WP	002225431.1	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	T	I	T	S	K	I	P	K	F	S	E	N	L	P	P	V	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	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	I	L	K	E	L	A	M	S	K	R	G	I	I	F	S	G	A	T	C	T	G	K	S	T	S	L	A	S	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	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	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																																																																						

NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	HRTG	HIL	T	V	E	D	P	I	E	F	V	H	E	H	K	R	C	I	V	T	Q	R	E	V	G	L	D	T	E	S	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	48062	NMBH4476	RS07920	WP	002225431.1	NS	F	G	H	I	T	I	E	D	P	I	E	F	V	H	E	H	K	N	C	I	I	T	Q	R	E	V	G	V	D	T	E	N	W	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	F	A	E	T	G	H	L	C	M	A	T	L	H		239			
NTDB	id	1203	PSJM300	01605	AFN	76401.1	N	S	S	G	H	I	S	I	E	D	P	I	E	F	I	H	Q	H	N	C	I	V	T	Q	R	E	V	G	I	D	T	D	S	F	E	V	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	V	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	H	S	K	G	H	I	T	I	E	D	P	I	E	F	I	H	E	H	A	G	C	I	I	T	Q	R	E	V	G	I	D	T	S	F	E	I	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	I	R	S	R	E	T	M	D	Y	A	I	F	A	E	T	G	H	L	V	F	A	T	L	H		230			
NTDB	id	1307	DR	RS10055	WP	010888596.1	T	K	K	L	H	I	L	T	I	E	D	P	I	E	F	M	H	P	N	K	A	S	I	I	N	Q	R	E	V	G	S	D	T	L	S	F	D	D	A	L	R	A	L	R	Q	A	P	D	V	I	L	V	G	E	M	R	D	Y	E	T	I	K	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	T	Q	P	A	H	I	L	T	I	E	D	P	I	E	F	V	H	Q	S	K	K	S	L	I	N	Q	R	E	L	H	Q	H	T	L	S	F	A	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	V	G	E	M	R	D	P	E	T	I	G	L	A	T	A	E	T	G	H	L	V	F	G	T	L	H		229	
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	S	R	Y	E	H	I	L	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	L	R	S	A	L	R	E	D	P	D	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	T	A	E	T	G	H	L	V	F	G	T	L	H		229			
NTDB	id	1259	GC085	RS10305	WP	010947729.1	S	R	Y	E	H	I	L	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	L	R	S	A	L	R	E	D	P	D	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	T	A	E	T	G	H	L	V	F	G	T	L	H		229			
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1	T	K	Y	H	H	I	L	T	I	E	D	P	I	E	F	V	H	E	S	K	K	C	L	V	N	Q	R	E	V	H	R	D	T	L	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	L	V	G	E	M	R	D	L	E																						

 non conserved
 similar
 $\geq 50\%$ conserved