

NTDB id	1177 A1552VC RS01165 WP 000422572.1	MELNQYL DGMITHKASDLYITV GAFILYRVDGELRAQGEA.LSVADVTALLHAMMDARQAEFKQTREA	68
NTDB id	1143793 A8Q77 RS03325 WP 004285269.1	MNHPNTSLPAKEEELYSWLKHLNKYKGSDFLVTAKFPFAMKLDGKITPTISDTPLDAERCMEAFSIMPTKQIEEFTQTNEC	80
NTDB id	1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGSDFLFITAGVPSPMKVNGKILPVNKTPTSPEMTRETIVHGVMNEQQRRREFTENHC	69
NTDB id	1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSCKTKLDGDMIAQLIDSITTQKQRQEFETHEC	69
NTDB id	1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDTILAAGLP PQFKLSGDYDAQGFEP LSASDTRKLMYSMMNERQQRIFEKREL	73
NTDB id	1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGCMMRRINLPESAEVGNMVTSVMNDHQRKIIYQQNLEV	69
NTDB id	1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNKSSDLHISAGMPPIRVVDGLRKINLPPLLEHKDVIKIITYDIMNDRQRKEYEEFFET	69
NTDB id	1259 GCO85 RS10305 WP 010947729.1	MDIAELLAFSVKNKSSDLHISAGMPPIRVVDGLRKINLPPLLEHKDVIKIITYDIMNDRQRKEYEEFFET	69
NTDB id	1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGASDLHLSAGLPPMIRVDGVRRINLPPLLEHKQVHALIYDIMNDKQRKDFFEEFLET	69
NTDB id	1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNRSASDLHLSAGIPPMIRVDGEVRRINLPAMDHSDEVHNLIYDIMNDKQRDDYEKKLET	69
NTDB id	1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAGMPPIRVVDGEVRRINLPALPHKDVHRLVYDIMNDKQRDDYEKKLET	69
NTDB id	1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPIRVVDGEVRRINLPALPHKDVHRLVYDIMNDKQRDDYEKKLET	69
NTDB id	1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPIRVVDGEVRRINLPALPHKDVHRLVYDIMNDKQRDDYEKKLET	69
consensus		*** **!* ** * ! ! ***** ! **** * * * * *	

NTDB id	1177	A1552VC	RS01165	WP	000422572.1	NFAVVRD..	SCRFRVS	AFFQ	RELPG	CAVIRRI	ETRIPT	FEELKL	PEVL	QNL	LAI	AKRGL	VLVVG	GATG	SGKSTT	MAAMT	GYN	146																																																														
NTDB id	1143793	A8Q77	RS03325	WP	004285269.1	NFAIS	IPN.	TSRFRVN	AMVQRG	ATALV	FRSITS	NIP	SFDTL	NLNP	PVLK	D	AMQK	RGLV	IFVGG	TGSGKST	SLAS	MI	DFN	159																																																												
NTDB id	1203	PSJM300	01605	AFN	76401.1	NFAIS	ARG.	TCRFRVS	AFYQ	RNLN	AGV	MLRRI	ETRIPT	IED	LKL	PD	LK	LALTR	RGLV	FLVFG	ATGT	GKST	SLA	MI	IGN	148																																																										
NTDB id	1019	ACIAD	RS04205	WP	004922051.1	NFAILN	REKNER	FRVS	AFQ	CDMP	GMVIRRI	ETIK	IP	SPDDL	LHLP	PI	LK	ELAM	SKRG	IIIF	S	GATGT	GKST	SLA	MI	QHRN	149																																																									
NTDB id	1307	DR	RS10055	WP	010888596.1	D	S	F	A	L	G	D.	K	A	R	F	R	V	N	A	F	M	Q	R	G	N	V	G	V	M	R	L	I	P	T	T	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	152		
NTDB id	1086	NMV	RS00245	WP	002218487.1	D	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	148	
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NTDB id	1060	ABD1	RS04380	WP	000355489.1																																																																															

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NTDB	id	1143793	A8Q77	RS03325	WP	004285269.1	EN	SH	D	H	I	T	I	E	D	P	I	E	F	V	H	E	K	N	C	I	V	T	Q	R	E	I	G	V	D	T	E	N	M	H	A	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	I	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	239					
NTDB	id	1203	PSJ300	01605	AFN	76401.1	K	N	S	S	G	H	I	T	I	E	D	P	I	E	F	T	H	Q	H	Q	N	C	I	V	T	Q	R	E	V	G	I	D	T	S	F	E	V	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	I	G	E	V	R	T	R	E	T	M	D	H	A	F	A	E	T	G	H	L	C	L	A	T	L	228				
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	Q	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	I	G	E	I	R	S	R	E	V	M	D	Y	A	F	A	E	T	G	H	L	V	F	A	T	L	229				
NTDB	id	1307	DR	RS10055	WP	010888596.1	T	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	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	232
NTDB	id	1086	NMV	RS00245	WP	002218487.1	E	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	I	I	L	V	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	228
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	S	S	R	Y	E	H	I	L	T	I	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	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	228
NTDB	id	1259	GCO85	RS10305	WP	010947729.1	S	S	R	Y	E	H	I	L	T	I	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	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	228
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1	N	T	K	Y	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	S	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G																											

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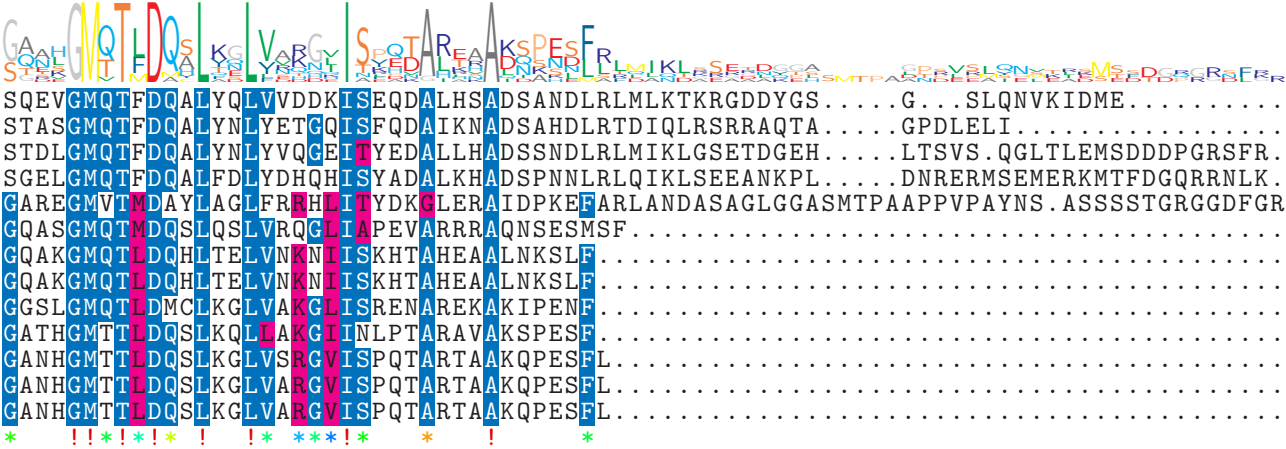
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NTDB	id	1060	ABD1	RS04380	WP	000355489.1
NTDB	id	1040	HON27	RS13360	WP	000355489.1
consensus						



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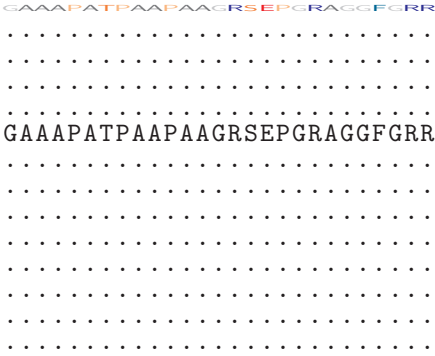
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NTDB	id	1081	FDQ49	RS05335	WP	006581387.1
NTDB	id	1060	ABD1	RS04380	WP	000355489.1
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NTDB	id	1259	GCO85	RS10305	WP	010947729.1
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NTDB	id	1020	ACIAD	RS04210	WP	011182164.1
NTDB	id	1081	FDQ49	RS05335	WP	006581387.1
NTDB	id	1060	ABD1	RS04380	WP	000355489.1
NTDB	id	1040	HON27	RS13360	WP	000355489.1
consensus						



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 non conserved
 similar
 $\geq 50\%$ conserved