

NTDB id	1177	A1552VC	RS01165	WP	000422572.1		MELNQYL	DGM	LTHK	ASDLY	ITV	GAPILY	RVDG	ELRAQGE	ALSVAD	VTAL	LHAM	MD	DARQA	EFK	Q	TR	EAN	69																																															
NTDB id	154131	DE10444	RS07560	WP	002214012.1	MFTDENMTAKE	EL	FAWL	RHMN	KNK	GSDLF	V	ITHF	PPAM	KLDG	KIT	RT	ITDEP	LTAEK	CME	IA	S	IMSAK	QAE	EF	SST	NE	ECN	80																																										
NTDB id	1203	PSJM300	01605	AFN	76401.1		MEFEK	LLRL	M	VEKG	GSDLF	ITAG	VPPSM	KVNG	KILP	V	NKTP	MP	EMTRET	V	HGV	MNE	Q	QR	REF	T	EN	HE	ECN	70																																									
NTDB id	1019	ACIAD	RS04205	WP	004922051.1		MDFND	L	LNL	MAKHK	ASDLF	ITAG	VEPS	L	KINGE	ITP	V	SKTKL	DGM	I	ACL	L	IDS	IT	TQ	KR	Q	EF	IE	TECN	70																																								
NTDB id	1307	DR	RS10055	WP	010888596.1		MTSGI	D	IT	DIL	RL	AAD	KG	ASD	I	IL	AAG	L	PPQ	F	K	L	S	G	DY	A	Q	G	F	E	P	L	S	A	S	D	T	R	K	L	M	S	M	N	E	R	Q	Q	R	I	F	E	E	K	R	E	L	D	74												
NTDB id	1086	NMV	RS00245	WP	002218487.1		MQITD	L	L	A	F	G	A	K	N	K	ASD	L	H	L	S	S	G	I	S	P	M	I	R	V	H	G	D	M	R	R	I	N	L	P	E	M	S	A	E	E	V	G	N	M	V	T	S	V	M	N	D	H	Q	R	K	I	Y	Q	N	L	E	V	D	70	
NTDB id	1283	ACE17W	RS02630	WP	010947729.1		MDIA	E	L	L	A	F	S	V	K	N	K	S	S	D	L	H	I	S	A	G	M	P	P	M	I	R	V	D	G	L	R	K	I	N	L	P	L	E	H	K	D	V	I	K	I	Y	D	I	M	N	D	R	Q	R	K	E	Y	E	E	F	F	E	T	D	70
NTDB id	1259	GC085	RS10305	WP	010947729.1		MDIA	E	L	L	A	F	S	V	K	N	K	S	S	D	L	H	I	S	A	G	M	P	P	M	I	R	V	D	G	L	R	K	I	N	L	P	L	E	H	K	D	V	I	K	I	Y	D	I	M	N	D	R	Q	R	K	E	Y	E	E	F	F	E	T	D	70
NTDB id	1194	PAKAF	RS01995	WP	003084552.1		MDIT	E	L	L	A	F	S	A	K	Q	G	ASD	L	H	L	S	A	G	L	P	P	M	I	R	V	D	G	D	V	R	R	I	N	L	P	L	E	H	K	D	V	H	R	L	V	Y	D	I	M	N	D	K	Q	R	D	F	E	E	F	L	E	T	D	70	
NTDB id	1202	PSJM300	01600	AFN	76400.1		MDIT	E	L	L	A	F	S	A	K	Q	G	ASD	L	H	L	S	S	G	L	P	P	M	I	R	V	D	G	D	V	R	R	I	N	L	P	A	M	D	H	S	E	V	H	N	L	I	Y	D	I	M	N	D	K	Q	R	D	F	E	E	F	L	E	T	D	70
NTDB id	1020	ACIAD	RS04210	WP	011182164.1		MDIT	E	L	L	A	F	S	V	Q	N	R	ASD	L	H	L	S	A	G	I	P	P	M	I	R	V	D	G	E	V	R	R	I	N	L	P	A	M	D	H	S	E	V	H	N	L	I	Y	D	I	M	N	D	K	Q	R	D	Y	E	E	K	L	E	T	D	70
NTDB id	1081	FDQ49	RS05335	WP	006581387.1		MDIT	E	L	L	A	F	S	V	K	N	G	ASD	L	H	L	S	A	G	M	P	P	M	I	R	V	D	G	E	V	R	R	I	N	L	P	A	L	E	H	K	D	V	H	R	L	V	Y	D	I	M	N	D	K	Q	R	D	Y	E	E	K	L	E	T	D	70
NTDB id	1060	ABD1	RS04380	WP</																																																																			

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	154131	DE10444	RS07560	WP	002214012.1	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	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	O1605	AFN	76401.1	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	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	T	V	R	T	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	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	GCO85	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	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							

NTDB id 1177	A1552VC	RS01165	WP 000422572.1	HRTGHILTVEDPIEFVHEH	KRCIVTQREVG	LDTESYEVALKNSLRQAPD	MILGEIRSR	ETMEYAMTFAETGHL	CMATLH	227	
NTDB id 154131	DE10444	RS07560	WP 002214012.1	NSFGHIITIEDPIEFVHEH	KNCIITQREVG	VDTENWMAALKNTLRQAPD	VILGEIRDR	ETMDYAI	FAETGHL	CMATLH	239
NTDB id 1203	PSJM300	01605	AFN76401.1	NSSGGHISIEDPIEFTHQHQN	CIVTQREVG	IDTDSFEVALKNTLRQAPD	VILGEVTR	TRETDHVAFAETGHL	CLATLH	229	
NTDB id 1019	ACIAD	RS04205	WP 004922051.1	HSKGHIITIEDPIEFIEHAGC	CIITQREVG	IDTDSFEVALKNTLRQAPD	VILGEIRSR	ETMDYALAF	AETGHL	VFRATLH	230
NTDB id 1307	DR	RS10055	WP 010888596.1	TKKLHILTVEDPIEFMHPNK	ASIIINQREV	GSDTLSFDDALRALRLQAPD	VILVGEMR	DPETIKAAV	TAAETGHL	VMGTLH	233
NTDB id 1086	NMV	RS00245	WP 002218487.1	TQPAHILTVEDPIEFVHQ	SKKSLINQRE	LHQHTLSFANALRSALREDPD	VILVGEMR	DPETIGL	LALTAETGHL	VFGTLH	229
NTDB id 1283	ACE17W	RS02630	WP 010947729.1	SRYEHLTVEDPIEFVHQ	SKKCLVNQREV	HKDTLSFNAALRSALREDPD	IILVGELR	DLETIRLAM	TAAETGHL	VFGTLH	229
NTDB id 1259	GC085	RS10305	WP 010947729.1	SRYEHLTVEDPIEFVHQ	SKKCLVNQREV	HKDTLSFNAALRSALREDPD	IILVGELR	DLETIRLAM	TAAETGHL	VFGTLH	229
NTDB id 1194	PAKAF	RS01995	WP 003084552.1	TKYHHILTVEDPIEFVHE	SKKCLVNQREV	HRTLGFSFSEALRSALREDPD	IILVGEMR	DLETIRLAL	TAAETGHL	VFGTLH	229
NTDB id 1202	PSJM300	01600	AFN76400.1	TKYHHILTVEDPIEFVHE	SKKCLVNQREV	HRTLGFSFSEALRSALREDPD	IILVGEMR	DLETIRLAL	TAAETGHL	VFGTLH	229
NTDB id 1020	ACIAD	RS04210	WP 011182164.1	HRYPHILTVEDPIEFVHEP	KKCLINQREV	HRTLGFSFSEALRSALREDPD	IILVGEMR	DLETIRLAL	TAAETGHL	VFGTLH	229
NTDB id 1081	FDQ49	RS05335	WP 006581387.1	NRYPHILTVEDPIEFVHQ	SKKCLINQREV	HRTLGFSFSEALRSALREDPD	IILVGEMR	DLETIRLAL	TAAETGHL	VFGTLH	229
NTDB id 1060	ABD1	RS04380	WP 000355489.1	NRYPHILTVEDPIEFVHQ	SKKCLINQREV	HRTLGFSFSEALRSALREDPD	IILVGEMR	DLETIRLAL	TAAETGHL	VFGTLH	229
NTDB id 1040	HON27	RS13360	WP 000355489.1	NRYPHILTVEDPIEFVHQ	SKKCLINQREV	HRTLGFSFSEALRSALREDPD	IILVGEMR	DLETIRLAL	TAAETGHL	VFGTLH	229
consensus				***	!!**	*****!!	!!	*****!!	*****!!	*****!!	*****!!

 non conserved
 similar
 $\geq 50\%$ conserved