

NTDB id 1402	DSB67 RS12670 WP 010643257.1	MKTIA PQ LK N YRWKG I NSSGKK.TSGNVLAMTEIEVRERLDAQH T IKIKK L KGSISFITK.ISHRVKG	66
NTDB id 1169	A1552VC RS11075 WP 000648511.1	MKATQTLP L KNYRWKG I NSNGKK.VSQQLAISEIEVRDK L KDQH I QIKK L KGVS V LAR.LTHR V KS	67
NTDB id 1112	NGFG RS09215 WP 003689811.1	MAKNGGFS L F A KK E KRFIFEGRHSASDKLVNGEVSAFTEEEARKKLAKRGIRPLQITRV....KTSSKR K ITQ	69
NTDB id 1113	AAA85695.1 219..1451()	MAKNGGFS L F A KK E KRFIFEGRHSASDKLVNGEVS A FT E EEARKKLAKRGIRPLQITRV....KTSSKR K ITQ	69
NTDB id 405703	GOC52 RS16165 WP 191849884.1	MSVSRSAIKKEPVARTT L QP F VEGTDRKG V .MKGEQVAKNANLLRAELRRGGINPGTVKP K PKP L FGA.AGSK V SP	78
NTDB id 1252	GCO85 RS07730 WP 011213805.1	MDKN S PP L LT F H Y QG I NKA G Q K .MEGD I QARSLA I AKADLRKQGI V TNK V V K KRK P LFDR.KN K K I TQ	66
NTDB id 1198	PSJM300 O3950 AFN76868.1	MAQ K AIKNS V FTW E GLDRQ G AK.IKGELS G VSPAL V K A QLRKQGIN P Q K VR K KSISLFS.. <agKKIKP</ag	65
NTDB id 1016	ACIAD RS01680 WP 004920476.1	MAAKKTQ V MP V FAYEGVD R K G IK.LKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEGLL K K V KP	68
NTDB id 1059	ABD1 RS01610 WP 000279215.1	MAVK K AQM M PT F AYEGVD R K G V K .IKGELPA K NMALAKVTLRKQGVTVRNIREKRKNILEGL F K V TT	68
consensus		* * * * *	

NTDB id 1402	DSB67 RS12670 WP 010643257.1	KDITVFTRQ L ATMTGGVPIVQALKLVSENHKKAEMKSILMSVTRAVEAGTPMSKAMRTASTHFDPLYTDLIATGEGSGN	146
NTDB id 1169	A1552VC RS11075 WP 000648511.1	KDITVLTRQLATMTTTGVPIVQALKLVGDNRKAEMKSILAQITKSV E AGTPLSKAMRTASAHFDTLYVDL V ETGEMSGN	147
NTDB id 1112	NGFG RS09215 WP 003689811.1	EDITVFRTRLSTMIAKAGPLMQAFEIVARGHGNPSSMTEMLMEIRGQVEQGSSLSRAFSFNHPKYFYDRFYCNLVAAGETGGV	149
NTDB id 1113	AAA85695.1 219..1451()	EDITVFRTRLSTMIAGLPLMQAFEIVARGHGNSPMTLEMLMEIRGQVEQGSSLSRAFSNHPKYFYDRFYCNLVAAGETGGV	149
NTDB id 405703	GOC52 RS16165 WP 191849884.1	KDIAFSPRQMATMKKS G VPILVSALDI I ASGHKNPRMKKMVEGIRADIEGGSSSLYEAVSKHPVQFDELYRNLVRAGEGAGV	158
NTDB id 1252	GC085 RS07730 WP 011213805.1	ADITVFSRQLATMI E SGTPLVQAFLDIVAKQGSNKRLKDLIETIKHDIETGLTLAESLIKHPLYFNELFCNLVDAGEKSGS	146
NTDB id 1198	PSJM300 O3950 AFN76868.1	M D I I ALFTRQM A TMMKAGVPLLQSFDII G EGGFDPNPNMRKLVDLLKQEVAAGNSFASSLRKKPKQYFDDL C YNLVDSGEQSGS	145
NTDB id 1016	ACIAD RS01680 WP 004920476.1	LDIA I LFTRQLATMMKAGVPLVQAFEIVAEGLENPAMRDVVLG L KNNEVEGGNTFAGALRKYPQYFDNFLFCSLIESGEQSGS	148
NTDB id 1059	ABD1 RS01610 WP 000279215.1	L D ITVFRQLATMMKAGVPLVGCFEIVAEGLENPAMREVVVLGIKEVEGGSTFASALRKYPQHFDNFLFCSLVSEGEQSGA	148
consensus		KDITVFTRQLATMTGGVPIVQALKLVSENHKKAEMKSILMSVTRAVEAGTPMSKAMRTASTHFDPLYTDLIATGEGSGN	

NTDB	id	1402	DSB67	RS12670	WP	010643257.1	L	S	Q	V	F	E	R	L	A	T	Y	R	E	K	S	E	L	R	A	K	V	I	K	A	L	I	P	A	M	V	V	L	V	A	L	G	V	S	Y	L	M	L	T	R	V	I	P	E	F	E	K	M	F	T	G	F	G	A	D	L	P	A	F	T	Q	M	V	I	N	L	S	A	T	Q	N	W	G	226
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	L	P	E	V	F	E	R	L	A	T	Y	R	E	K	S	E	L	R	A	K	V	I	K	A	L	I	P	S	M	V	V	L	V	A	L	G	V	S	Y	L	M	L	T	M	V	I	P	E	F	E	S	M	F	K	G	F	G	A	E	L	P	W	F	T	Q	Q	V	L	K	L	S	H	W	Q	A	Y	S	227
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	L	E	S	L	D	K	L	A	T	Y	K	E	K	T	Q	A	I	R	K	K	V	K	T	A	L	T	P	V	S	V	I	A	V	A	I	G	L	V	F	V	M	I	F	V	L	P	A	F	K	E	V	Y	A	N	M	G	A	E	L	P	L	T	Q	T	V	M	D	S	D	F	F	V	S	Y	G	229		
NTDB	id	1113	AAA85695.1	219..1451()			L	E	S	L	D	K	L	A	T	Y	K	E	K	T	Q	A	I	R	K	K	V	K	T	A	L	T	P	V	S	V	I	A	V	A	I	G	L	V	F	V	M	I	F	V	L	P	A	F	K	E	V	Y	A	N	M	G	A	E	L	P	A	L	T	Q	T	V	M	D	S	D	F	F	V	S	Y	G	229	
NTDB	id	405703	GQC52	RS16165	WP	191849884.1	L	E	T	V	L	D	T	V	A	T	Y	K	E	N	I	E	A	L	K	G	K	I	K	A	L	F	Y	P	A	M	V	V	V	V	V	S	A	I	M	L	I	F	V	V	P	Q	F	E	E	V	F	R	G	F	G	A	D	L	P	A	F	T	Q	M	I	V	N	L	S	R	F	M	V	S	W	238		
NTDB	id	1252	GC085	RS07730	WP	011213805.1	L	D	T	M	L	D	K	V	A	T	Y	K	E	I	E	I	T	K	K	I	K	K	A	L	T	P	I	A	V	M	V	V	A	L	L	V	T	A	G	L	I	I	V	V	P	Q	F	E	S	L	F	K	G	F	G	A	D	L	P	A	M	T	R	A	V	I	T	M	S	E	F	M	Q	A	Y	W	226	
NTDB	id	1198	PSJM300	03950	AFN76868.1		L	E	T	L	D	R	V	A	T	Y	K	E	T	E	A	L	K	A	K	I	K	K	A	M	N	Y	P	I	A	V	V	L	V	A	V	I	T	A	I	L	L	I	K	V	V	P	Q	F	Q	D	V	F	A	N	F	G	A	E	L	P	A	F	T	L	M	V	I	G	L	S	E	A	L	Q	A	W	225	
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	L	E	T	M	L	D	R	V	A	T	Y	K	E	S	E	V	L	K	Q	K	I	K	K	A	M	K	Y	P	A	T	V	I	V	A	I	V	T	I	L	M	V	K	V	V	P	V	F	K	D	L	F	T	S	F	G	A	D	L	P	A	F	T	Q	L	V	V	N	M	S	N	W	M	Q	D	Y	W	228	
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	L	E	T	M	L	D	R	V	A	T	Y	K	E	S	E	L	L	K	Q	K	I	K	K	A	M	K	Y	P	A	T	V	I	V	A	I	V	T	I	L	M	V	K	V	V	P	V	F	Q	D	L	F	A	S	F	G	A	D	L	P	A	F	T	Q															

NTDB	id	1402	DSB67	RS12670	WP	010643257.1	PF	GLSFVSL	LISGKIMSQR	SDS	FRLLAA	RSSL	LRVPILGP	VLSKAA	I	AKFS	R	TLAT	S	SAGI	P	I	L	T	A	L	K	T	S	K	T	S	G	N	M	H	Y	306																																																
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	LW	A	I	A	A	A	I	F	G	L	K	A	L	R	K	N	S	F	Q	I	R	L	K	T	S	R	L	G	L	K	F	P	I	I	G	N	V	L	A	K	A	S	I	A	K	F	S	R	T	L	A	T	S	F	A	A	G	I	P	I	L	A	S	L	K	T	T	A	K	T	S	G	N	V	H	F	307			
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	WM	V	I	A	L	G	F	A	I	Y	F	L	K	L	K	A	R	S	I	K	I	Q	R	R	M	D	A	I	L	L	R	M	P	I	F	G	D	I	V	R	K	G	T	I	A	R	W	G	R	T	T	A	T	L	F	A	A	G	V	P	L	V	D	V	L	D	S	T	A	G	A	A	G	N	L	I	Y	309		
NTDB	id	1113	AAA85695.1	219..1451()			WM	V	I	A	L	G	F	A	I	Y	F	L	K	L	K	A	R	S	I	K	I	Q	R	R	M	D	A	I	L	L	R	M	P	I	F	G	D	I	V	R	K	G	T	I	A	R	W	G	R	T	T	A	T	L	F	A	A	G	V	P	L	V	D	V	L	D	S	T	A	G	A	A	G	N	L	I	Y	309		
NTDB	id	405703	GQC52	RS16165	WP	191849884.1	WL	I	A	I	V	A	I	G	A	V	A	F	T	M	A	Y	K	R	S	P	N	M	Q	H	T	M	D	R	L	I	L	R	V	P	V	I	G	Q	I	M	H	N	S	S	I	A	R	F	A	R	T	T	A	V	T	F	K	A	G	V	P	L	V	E	A	L	G	I	V	A	G	A	T	G	N	K	V	Y	318	
NTDB	id	1252	GCO85	RS07730	WP	011213805.1	YI	I	F	G	A	L	G	V	V	S	F	F	Y	A	K	N	S	L	E	F	A	Q	T	I	D	R	V	M	L	K	L	P	V	I	G	P	I	L	E	K	A	A	I	A	R	F	A	R	T	L	S	I	T	F	A	A	G	L	P	L	V	E	A	L	K	S	V	A	G	A	T	G	N	I	I	Y	306			
NTDB	id	1198	PSJM300	03950	AFN	76868.1	YV	V	L	A	G	F	V	C	A	A	Y	A	F	K	Q	A	H	T	R	S	E	K	F	R	N	W	F	D	R	L	M	L	K	V	P	V	V	G	D	I	L	Y	K	S	S	V	A	R	F	A	R	T	L	S	T	T	F	A	A	G	V	P	L	V	D	A	L	D	S	V	A	G	A	T	G	N	V	V	F	305
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	FIL	I	L	V	I	G	A	A	I	A	G	F	L	E	A	R	K	R	S	K	R	F	R	D	Q	L	D	R	L	V	L	R	L	P	I	V	G	D	L	V	Y	K	A	I	A	R	Y	S	R	T	L	A	T	T	F	A	A	G	V	P	L	I	D	A	L	A	S	T	A	G	A	T	N	N	T	V	Y	308		
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	FIM	I	I	A	I	G	A	V	I	A	A	F	L	E	A	K	R	S	K	K	F	R	D	G	L	D	K	L	A	L	K	L	P	I	F	G	D	L	V	Y	K	A	I	A	R	Y	S	R	T	L	A	T	T	F	A	A	G	V	P	L	I	D	A	L	A	S	T	A	G	A	T	N	N	T	V	Y	308			
consensus							*****																																																																															

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NTDB id 1169 A1552VC RS11075 WP 000648511.1
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NTDB id 1169 A1552VC RS11075 WP 000648511.1
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NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
consensus



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☒ non conserved
☒ similar
☒ ≥ 50% conserved