

NTDB id 1323	RAOC RS07335 WP 004916218.1	.MLVVKVYGS AI HGVSAQTITTEVNVDQGV.GYHLVLGLPDNATIK ESS HRISAAIKNVGVYKLP G KKKITINMAPADLRKEGSA	78
NTDB id 1271	LPP RS03220 WP 011213198.1	MSLAFTKTRSTIGIVAPQVSV EV HL S NGLPSTFMVGLAETAVKESKDRVRSAIN S QF E FPCKRITVNLGPANLPKKTGSG	80
NTDB id 1248	GC085 RS03150 WP 011213198.1	MSLAFTKTRSTIGIVAPQVSV EV HL S NGLPSTFMVGLAETAVKESKDRVRSAIN S QF E FPCKRITVNLGPANLPKKTGSG	80
NTDB id 1032571	AB8E26 RS09460 WP 369970225.1	MSLAIVHSRARAGVNA P ARIEVL L SGGLPHTQMVLGPETA B ESRDVRRAAIVCSQF E FPQRRITINLAPADLPKEGGR	80
NTDB id 1153	A1552VC RS00115 WP 000521788.1	MGLAIIHSRASIGVQAPPVTV EV HL S NGMPGFTLVGLPETTVKESRDRVRSAIN S RF E FP A KRITVNLAPADLPKEGGR	80
NTDB id 1397	DSB67 RS15690 WP 005535577.1	MGLAIIHSRASVGVQAPSVSV EV HL S NGMPGFTLVGLPETTVKESKDRVRSAIN S NFQ F PAKRITVNLAPADLPKEGGR	80
NTDB id 1349	HI 1117 AAC22771.1	MSLAIVVSRASMGVQAPLVTV EV HL S NGKPGFTLVGLPEKTVKEAQDRVRSALMN A QFKYPAKRITVNLAPADLPKEGGR	80
NTDB id 1387	A4U84 RS06900 WP 020457569.1	MSLAIVVSRASIGVQAPLVTV EV HL S SGSPGLTLVGLPEKSVKEAQDRVRSALMN A NFDYPARRITINLAPADLPKEGGR	80
consensus		***** *****	

NTDB id 1323	RAOC RS07335 WP 004916218.1	YDI	ST	AL	GIL	AAS	GQ	II	AP	ET	RY	LI	MG	EL	SL	DG	GL	QP	IK	GV	LP	IA	TR	ARE	EG	FG	KG	II	LP	KQ	NT	RE	AA	IV	ND	LE	VY	GV	EN	158																																									
NTDB id 1271	LPP RS03220 WP 011213198.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	N	.	Q	H	L	I	I	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	159	
NTDB id 1248	GC085 RS03150 WP 011213198.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	N	.	Q	H	L	I	I	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	159	
NTDB id 1032571	AB8E26 RS09460 WP 369970225.1	F	D	L	A	I	A	L	G	I	L	A	A	S	G	Q	I	D	T	Q	V	L	S	R	Y	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	NG	V	P	A	A	L	A	A	RL	G	.	R	T	L	I	V	P	P	E	N	A	A	E	A	G	L	A	G	H	A	D	V	R	V	A	R	T	159			
NTDB id 1153	A1552VC RS00115 WP 000521788.1	F	D	L	P	I	A	L	G	I	L	A	A	S	D	Q	I	A	R	N	K	L	E	S	Y	E	F	I	G	E	L	A	L	S	G	E	I	R	G	V	K	G	V	L	P	A	A	L	A	N	Q	V	E	.	R	C	L	V	V	P	H	S	N	C	D	Q	A	A	L	V	G	V	E	R	H	K	S	A	Q	S	159
NTDB id 1397	DSB67 RS15690 WP 005535577.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	A	T	D	K	L	K	N	Y	E	F	V	G	E	L	A	L	S	G	G	L	R	T	V	K	G	V	L	P	A	A	L	A	N	K	K	Q	.	R	H	L	V	V	P	H	A	N	C	D	Q	A	A	L	V	G	K	E	Q	H	K	S	A	Q	S	159
NTDB id 1349	HI 1117 AAC22771.1	F	D	L	P	I	A	L	G	I	L	A	A	S	D	Q	I	D	A	S	H	L	K	Q	F	E	F	V	A	E	L	A	L	S	G	Q	L	R	G	V	H	G	V	I	P	A	I	L	A	A	Q	K	S	.	R	E	L	I	I	A	K	Q	N	A	N	E	A	S	L	V	S	D	Q	N	T	Y	F	A	Q	T	159
NTDB id 1387	A4U84 RS06900 WP 020457569.1	F	D	L	P	I	A	L	G	I	L	A	A	S	G	Q	I	D	S	D	K	L	K	R	I	E	L	L	G	E	L	S	L	T	G	H	L	R	G	V	H	G	A	I	P	A	V	L	A	A	K	S	A	K	.	R	E	I	V	P	Q	Q	N	A	N	E	S	L	V	S	N	T	Q	T	Y	C	A	S	T	159	
consensus		*	!	*	!	*	!																																																																										

[illegible]

NTDB id	1323 RAOC RS07335 WP 004916218.1	PPLTLKEAETTKHSVAGKMGAETSMTIRPFRSPHHTISDVALVGGSYPQPGGEISLAHNGLVLFLDEMPFEKRTIVLEF	318
NTDB id	1271 LPP RS03220 WP 011213198.1	PELSETQAIECAAINSIRGKLPRDFREWILPPFRAPHHTASPVALVGGNPNPKPGEISLAHHGVLFDELPEFNRRQVLET	314
NTDB id	1248 GC085 RS03150 WP 011213198.1	PELSETAIECAAINSIIRGKLPRDFREWLIPRFRAPPHHTASPVALVGGNPNKPGEISLAHHGVLFDELPEFNRRQVLET	314
NTDB id	1032571 AB8E26 RS09460 WP 369970225.1	PDAITALEAEIETAATVASCTGGGIIDTARWRQRPRYPSPHHTASAVALVGGSFPKPGEISLAHNGLVLFLDELPEWSRHAALEV	311
NTDB id	1153 A1552VC RS00115 WP 000521788.1	PEMSDEEAEMETASIASLTQQEIINQHNNWKLRPFRAPHSSSMAALVGSGTIIPRGPGEISLAHNGLLVFLDEMPEFERKVLDLS	314
NTDB id	1397 DSB67 RS15690 WP 005535577.1	PEMSDEEAEMETASVASLTQSIIINEHNWKTRPFRAHPHSSSMAALVGGSVPVRGPGEISLAHNGLLVFLDEMPEFDKRKVLDLS	314
NTDB id	1349 HI 1117 AAC22771.1	PEMTDLAEATAESVTSLVQNELNFHNWKQRPFRAPHSSASMPALVGSGTIIPKGGEISLATNGVLFLDELPEFERKKVLLDA	318
NTDB id	1387 A4U84 RS06900 WP 020457569.1	PEMEDAEAIAETASVSILTQNELNFGNQWKRPFRSPHSHASMVALVGGSVIPKGGEISLAHNGLVLFLDELPEFERKKVLLDA	317
consensus		!***!!**!*!!!!!!!*****!	

logo

NTDB id 1323	RAOC	RS07335	WP 004916218.1	LREPLESGEIIISRAAKVLEFPAFQLYAAMNPSPTCGYGSSQNRITSPQIRYLNRRLSGPFLDRFDMSIEVPALPQG	397
NTDB id 1271	LPP	RS03220	WP 011213198.1	MRQPLEDRVITISRAKFTVNYPASFMLVASMNPSPSGFFPDDPN.NTSSSFEMQRYLNLKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248	GC085	RS03150	WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLI AAMNPPCGQWGN SQANCMCTPDRI SRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1032571	AB8E26	RS09460	WP 369970225.1	LREPLESGHICISRAAAQIEFPAKFQLI AAMNPPCGQWGN SQANCMCTPDRI SRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1153	A1552VC	RS00115	WP 000521788.1	LREPLESGQVVVARASRSEAFPARFQLV AAMNPPCGWAGDRSGRCRC AVDGIQRYRGRVSGPLLDRIDLHVEVPRLEPH	392
NTDB id 1397	DSB67	RS15690	WP 005535577.1	LREPLESGEIVISRAQ GKTRFPARFQLV GALNPSP TGY YEGSQ.. ARAN PQSIL RYLSRLSGPLLDRFDMSTIETPALPKG	392
NTDB id 1349	HI 1117	AAC22771.1		LREPLESGEIIISRAQ GKTRFPARFQI V GALNPSP TGY YEGNQ.. ARTNPQA I LRYLGR LSGPLLDRFDMSTIETPALPKG	396
NTDB id 1387	A4U84	RS06900	WP 020457569.1	LRQPLESGEIIISRA NAKIQFPARFQLV AAMNPPSP TGH YTGTH.. NRTSPQQIMRYLNR LSGPFLDRFDLSIEVPLLPQG	395
consensus				*!!!!!!!!!!!!!!!!!! * * *!!!!!!*****!!!!!! * * * * * *!!!!*****!!!!!! *!!!!!!	

logo

NTDB id 1323	RAOC	RS07335	WP 004916218.1	ELSNPTDRGEISAAVRRVVKAREQLARSGKVALNSKEIECQLDALFLEALKLLSARAYHRLIK	475
NTDB id 1271	LPP	RS03220	WP 011213198.1	QLSDK..RKGESSEITRQVRLKAREIQQERYQDLAISYNAQMGPKEIEHFCE LDEVSLLLTKNAMEKLNLSARAYDRILK	470
NTDB id 1248	GC085	RS03150	WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQD...SLNANLNSKTCEMVCELGSEEQLFLREVMSK LKLSARGYHRLIK	470
NTDB id 1032571	AB8E26	RS09460	WP 369970225.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQD...SLNANLNSKTCEMVCELGSEEQLFLREVMSK LKLSARGYHRLIK	466
NTDB id 1153	A1552VC	RS00115	WP 000521788.1	ELRDD.TPCGEDSSTVRARVVAAREVQLGRSE...KANAQLQPGELAQHCRLSTADRQLLEDAVERLQLSARSMHRILR	467
NTDB id 1397	DSB67	RS15690	WP 005535577.1	TLANG.GDRGESTAAVRQRVWVARERMLARSG...KVNALLQSREIEQYCP LLKADAEFLESALHRLGLSIRAYHRIK	467
NTDB id 1349	HI 1117	AAC22771.1		TLSEG.GDRGEPTAI VKERVNQARDCMLARSG...KVNALLQSREIEAF CPLQKSDAEFLENALHRLGLSIRAYHRIK	471
NTDB id 1387	A4U84	RS06900	WP 020457569.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAG...KINAYLNSKEIERDC KLNDKDAFFLEKALNKLGLSVRAYHRILK	471
consensus				ALQNNTDQRGETTEQARKRVLEARHLQFNRRG...KINAQLTTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK	
				! **** * * * * *!!!!!! * *!!!!!!*****!!!!!! *!!!!!!	

logo

NTDB id 1323	RAOC	RS07335	WP 004916218.1	VSRTIADLERETNIQSHHIAEATQYRS LDRDFWKV.....	510
NTDB id 1271	LPP	RS03220	WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALS YKQNLHLPK.....	503
NTDB id 1248	GC085	RS03150	WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALS YKQNLHLPK.....	503
NTDB id 1032571	AB8E26	RS09460	WP 369970225.1	VARTVADLEGSEDIRTAHVAAEATGYRQLDRGGGA.....	500
NTDB id 1153	A1552VC	RS00115	WP 000521788.1	VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV	507
NTDB id 1397	DSB67	RS15690	WP 005535577.1	VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV	507
NTDB id 1349	HI 1117	AAC22771.1		VSRTIADLQGEQQIFQPHLAEALGYRAMVRLLKQLSNM..	509
NTDB id 1387	A4U84	RS06900	WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus				!!!!!!! * * * * *!!!!!!*****!!!!!! *!!!!!!	

- X non conserved
- X similar
- X ≥50% conserved