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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 181854 DA68 RS23875 WP 000971184.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

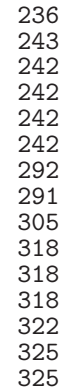
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NTDB id 601 KW2 RSO2615 WP 021036805.1
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NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 181854 DA68 RS23875 WP 000971184.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

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NTDB id 601 KW2 RS02615 WP 021036805.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPSVDETITILRGIQARYEDYHHVKYTDAAIEAAAH	320
NTDB id 378 SMU RS02690 WP 002263569.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPSVAETITILKGIQPKYEDYHHVKYTDAAIEAAAN	327
NTDB id 241 SP RS04015 WP 000882523.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
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NTDB id 245 SPD RS03860 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 243 SPR RS03635 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 181854 DA68 RS23875 WP 000971184.1	GAIDASNILKPSLARGEELQCIGATTTLDEYRKYIEKDAALERRFQPIHVDEPSLEESTQILKGLRDRYEAHHRVSIITDDAIDAAVK	377
NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSLARGEELQCIGATTTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQILQGLRDRYEAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAILQGLREKFEDYHQVKFTDQAIKSAVM	390
NTDB id 290 KZH43 RS10025 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 289 SPD RS10700 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 287 SP RS11210 WP 001109712.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
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NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHVMVGATTQAHEYQKHIEKDAALSRRFAKITIEEPSVSEATDILNGLRSSYEDYHRVTITDAAVETAVK	410
NTDB id 329 STU RS10020 WP 011225298.1	STLDAANILKPALARGTLHVMVGATTQAHEYQKHIEKDAALSRRFAKITIEEPSVSEATDILNGLRSSYEDYHRVTITDAAVETAVK	410
consensus	*!!!!!!!!*!!!!*****!!!!!! !! * !!!!!*!!!!!! * ****!*****!! !** *!****! *! !****!	

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NTDB id 601 KW2 RS02615 WP 021036805.1	LSNRYIQDRFLPDKAIDLDEAGSKVRLRSYTTTPNLKELEVKLEEIRKEKDAAVQSQEFEKAAASLRDMEQRLREKLEDTKRQWK	397
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NTDB id 85 BSU 00860 NP 387967.1	LSDRYISDRFLPDKAIDLIDEAASKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQSQEFEKAAASLRDTEQRLREQVEDTKKSWK	461
NTDB id 610 V4T04 RS10165 WP 012897346.1	LSVRYMTSRKLPDKAIDLDEAAAAVKISVKNQQTGRDLLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEKIADKIYKFS....	471
NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHLPDSAIDLDEAAATVQNKAKHVKADDSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHLPDSAIDLDEAAATVQNKAKHVKADDSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHLPDSAIDLDEAAATVQNKAKHVKADDSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 377 SMU RS09275 WP 002262344.1	GAHRYLSGNLPSAIDLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLLKKEK.....K....	469
NTDB id 297 STER RS00545 WP 011680614.1	AAHRYLTSKNLPSAIDLDEASATVQVRICK..EDKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPSAIDLDEASATVQVRICK..EAKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
consensus	** !!!!! * !!!!!*!!!!!!*!!!!* **** * * * **** * * !* ** *	

logo

NTDB	id	601	KW2	RS02615	WP	021036805.1	E	V	T	D	E	M	P	V	I	T	E	K	D	I	E	Q	V	E	Q	K	T	Q	I	P	V	G	D	L	K	E	K	E	Q	T	L	I	N	L	A	D	D	L	K	A	H	V	I	G	Q	D	E	A	V	D	K	I	S	K	A	I	R	R	S	R	V	G	L	G	K	P	N	R	P	I	G	S	F	L	F	V	G	P		482																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB	id	378	SMU	RS02690	WP	002263569.1	K	L	D	K	E	N	T	P	V	I	T	E	K	N	I	E	V	I	E	Q	K	T	N	I	P	V	G	E	L	K	E	K	E	Q	S	Q	L	I	H	L	A	D	D	L	K	T	R	V	I	G	Q	D	A	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		489																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB	id	241	SP	RS04015	WP	000882523.1	K	I	T	D	Q	D	T	P	S	I	S	E	K	T	I	E	H	I	I	E	Q	K	T	N	I	P	V	G	D	L	K	E	K	E	Q	S	Q	L	I	H	L	A	E	D	L	K	S	H	V	I	G	Q	D	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		488																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB	id	281	KZH43	RS03550	WP	000882517.1	K	I	T	D	Q	D	T	P	S	I	S	E	K	T	I	E	H	I	I	E	Q	K	T	N	I	P	V	G	D	L	K	E	K	E	Q	S	Q	L	I	H	L	A	E	D	L	K	S	H	V	I	G	Q	D	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		488																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB	id	245	SPD	RS03860	WP	000882517.1	K	I	T	D	Q	D	T	P	S	I	S	E	K	T	I	E	H	I	I	E	Q	K	T	N	I	P	V	G	D	L	K	E	K	E	Q	S	Q	L	I	H	L	A	E	D	L	K	S	H	V	I	G	Q	D	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		488																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB	id	243	SPR	RS03635	WP	000882517.1	K	I	T	D	Q	D	T	P	S	I	S	E	K	T	I	E	H	I	I	E	Q	K	T	N	I	P	V	G	D	L	K	E	K	E	Q	S	Q	L	I	H	L	A	E	D	L	K	S	H	V	I	G	Q	D	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		488																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB	id	181854	DA68	RS23875	WP	000971184.1	E	Q	Q	G	K	E	N	S	E	V	T	V	E	D	I	A	N	V	V	S	T	W	T	R	I	P	V	S	K	L	A	Q	T	E	T	D	K	L	L	N	L	E	S	I	L	H	D	R	V	I	G	Q	D	E	A	V	V	A	K	A	V	R	R	A	R	A	G	L	K	D	P	K	R	P	I	G	S	F	I	F	L	G	P		547																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	85	BSU	O0860	NP	387967.1	E	K	Q	G	K	E	N	S	E	V	T	V	D	D	I	A	M	V	V	S	S	W	T	G	V	P	V	S	K	L	A	Q	T	E	T	D	K	L	L	N	E	N	I	L	H	S	R	V	I	G	Q	D	E	A	V	V	A	K	A	V	R	R	A	R	A	G	L	K	D	P	K	R	P	I	G	S	F	I	F	L	G	P		546																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB	id	610	V4T04	RS10165	WP	012897346.1	.	V	K	E	D	K	R	Q	E	V	T	D	Q	A	V	V	A	S	T	L	T	G	V	P	T	Q	M	T	K	S	E	S	D	R	L	I	N	L	E	K	E	L	H	K	R	V	G	Q	E	E	A	T	S	A	V	S	R	A	I	R	R	A	R	S	G	V	A	D	S	R	P	M	G	S	F	M	F	L	G	P		555																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
NTDB	id	290	KZH43	RS10025	WP	001109677.1	.	V	P	V	.	Y	K	D	L	V	T	E	S	D	I	L	T	T	L	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	Q	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G	P		550																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	289	SPD	RS10700	WP	001109677.1	.	V	P	V	.	Y	K	D	L	V	T	E	S	D	I	L	T	T	L	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	Q	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G	P		550																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	287	SP	RS11210	WP	001109712.1	.	V	P	V	.	Y	K	D	L	V	T	E	S	D	I	L	T	T	L	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	Q	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G	P		550																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	377	SMU	RS09275	WP	002262344.1	.	P	L	L	K	K	R	A	E	V	K	E	E	D	I	L	A	T	L	S	K	L	S	G	I	P	V	K	L	T	Q	A	D	S	K	K	Y	L	N	L	E	R	E	L	H	K	R	V	I	G	Q	D	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	V	G	K	R	P	I	G	S	F	M	F	L	G	P		553																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB	id	329	STER	RS00545	WP	011680614.1	.	A	K	F	P	K	P	A	L	V	D	A	D	Q	I	M	Q	T	L	S	R	L	S	G	I	P	V	E	K	M	T	Q	T	D	S	K	R	Y	L	N	L	E	S	E	L	H	K	R	V	I	G	Q	D	E	A	V	S	A	I	S	R	A	I	R	N	Q	S	G	I	R	T	G	K	R	P	I	G	S	F	M	F	L	G	P		556																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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NTDB	id	601	KW2	RS02615	WP	021036805.1	TGVGKTELAKQ	LAKE	LFGSS	ES	MIR	FDM	SEYMEKH	SV	AK	L	GAPP	GVGY	EE	AGQL	TE	RVRN	PYS	L	ILL	DE	TE	KAHP	DV	MH	MFL	567																																																																																																																																																																																																																																																																																																																																															
NTDB	id	378	SMU	RS02690	WP	002263569.1	TGVGKTEL	SKQ	LAIE	LFGS	ED	SMIR	FDM	SEYMEKH	AV	AK	L	GAPP	GVGY	EE	AGQL	TE	KVRN	PYS	L	ILL	DE	VE	KAHP	DV	MH	MFL	574																																																																																																																																																																																																																																																																																																																																														
NTDB	id	241	SP	RS04015	WP	000882523.1	TGVGKTEL	SKQ	LAIE	LFGS	AD	SMIR	FDM	SEYMEKH	SV	AK	L	GAPP	GVGY	DE	AGQL	TE	KVRH	N	PYS	L	ILL	DE	VE	KAHP	DV	MH	MFL	573																																																																																																																																																																																																																																																																																																																																													
NTDB	id	281	KZH43	RS03550	WP	000882517.1	TGVGKTEL	SKQ	LAIE	LFGS	AD	SMIR	FDM	SEYMEKH	SV	AK	L	GAPP	GVGY	DE	AGQL	TE	KVRH	N	PYS	L	ILL	DE	VE	KAHP	DV	MH	MFL	573																																																																																																																																																																																																																																																																																																																																													
NTDB	id	245	SPD	RS03860	WP	000882517.1	TGVGKTEL	SKQ	LAIE	LFGS	AD	SMIR	FDM	SEYMEKH	SV	AK	L	GAPP	GVGY	DE	AGQL	TE	KVRH	N	PYS	L	ILL	DE	VE	KAHP	DV	MH	MFL	573																																																																																																																																																																																																																																																																																																																																													
NTDB	id	243	SPR	RS03635	WP	000882517.1	TGVGKTEL	SKQ	LAIE	LFGS	AD	SMIR	FDM	SEYMEKH	SV	AK	L	GAPP	GVGY	DE	AGQL	TE	KVRH	N	PYS	L	ILL	DE	VE	KAHP	DV	MH	MFL	573																																																																																																																																																																																																																																																																																																																																													
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NTDB	id	85	BSU	O0860	NP	387967.1	TGVGKTEL	A	RALA	ES	I	F	G	D	E	S	MIR	I	D	M	S	EYMEKH	ST	S	R	L	V	C	S	P	P	G	V	Y	G	E	G	Q	L	T	E	K	V	R	R	K	P	Y	S	V	L	L	D	E	V	E	K	A	H	P	D	V	F	N	I	L	631																																																																																																																																																																																																																																																																																																												
NTDB	id	610	V4T04	RS10165	WP	012897346.1	TGVGKTEL	A	KALA	D	S	V	F	G	S	D	N	MIR	V	D	M	S	EYMEKH	ST	S	R	L	I	G	A	P	P	G	V	Y	G	E	G	Q	L	T	E	R	V	R	N	K	P	Y	S	V	L	L	D	E	V	E	K	A	H	P	D	V	F	N	I	L	640																																																																																																																																																																																																																																																																																																											
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TGVGKTEL	A	KALA	E	V	L	F	D	D	E	S	A	L	I	R	F	D	M	SEYMEK	F	A	A	S	R	L	N	G	A	P	P	G	V	Y	G	E	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	F	D	E	V	E	K	A	H	P	D	I	F	N	V	L	635																																																																																																																																																																																																																																																																																																							
NTDB	id	289	SPD	RS10700	WP	001109677.1	TGVGKTEL	A	KALA	E	V	L	F	D	D	E	S	A	L	I	R	F	D	M	SEYMEK	F	A	A	S	R	L	N	G	A	P	P	G	V	Y	G	E	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	F	D	E	V	E	K	A	H	P	D	I	F	N	V	L	635																																																																																																																																																																																																																																																																																																							
NTDB	id	287	SP	RS11210	WP	001109712.1	TGVGKTEL	A	KALA	E	V	L	F	D	D	E	S	A	L	I	R	F	D	M	SEYMEK	F	A	A	S	R	L	N	G	A	P	P	G	V	Y	G	E	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	F	D	E	V	E	K	A	H	P	D	I	F	N	V	L	635																																																																																																																																																																																																																																																																																																							
NTDB	id	377	SMU	RS09275	WP	002262344.1	TGVGKTEL	A	KALA	E	V	L	F	D	D	E	S	A	L	I	R	F	D	M	SEYMEK	F	A	A	S	R	L	N	G	A	P	P	G	V	Y	G	E	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	F	D	E	V	E	K	A	H	P	D	I	F	N	I	L	638																																																																																																																																																																																																																																																																																																							
NTDB	id	329	STER	RS00545	WP	011680614.1	TGVGKTEL	A	KALA	E	V	L	F	D	D	E	S	A	L	I	R	F	D	M	SEYMEK	F	A	A	S	R	L	N	G	A	P	P	G	V	Y	G	E	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	F	D	E	V	E	K	A	H	P	D	I	F	N	I	L	641																																																																																																																																																																																																																																																																																																							
NTDB	id	297	STU	RS10020	WP	011225298.1	TGVGKTEL	A	KALA	E	V	L	F	D	D	E	S	A	L	I	R	F	D	M	SEYMEK	F	A	A	S	R	L	N	G	A	P	P	G	V	Y	G	E	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	F	D	E	V	E	K	A	H	P	D	I	F	N	V	L	641																																																																																																																																																																																																																																																																																																							
consensus																																																																																																																																																																																																																																																																																																																																																																															

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 181854 DA68 RS23875 WP 000971184.1	VIHSAEKVK.....	811
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		



-  non conserved
-  similar
-  ≥ 50% conserved