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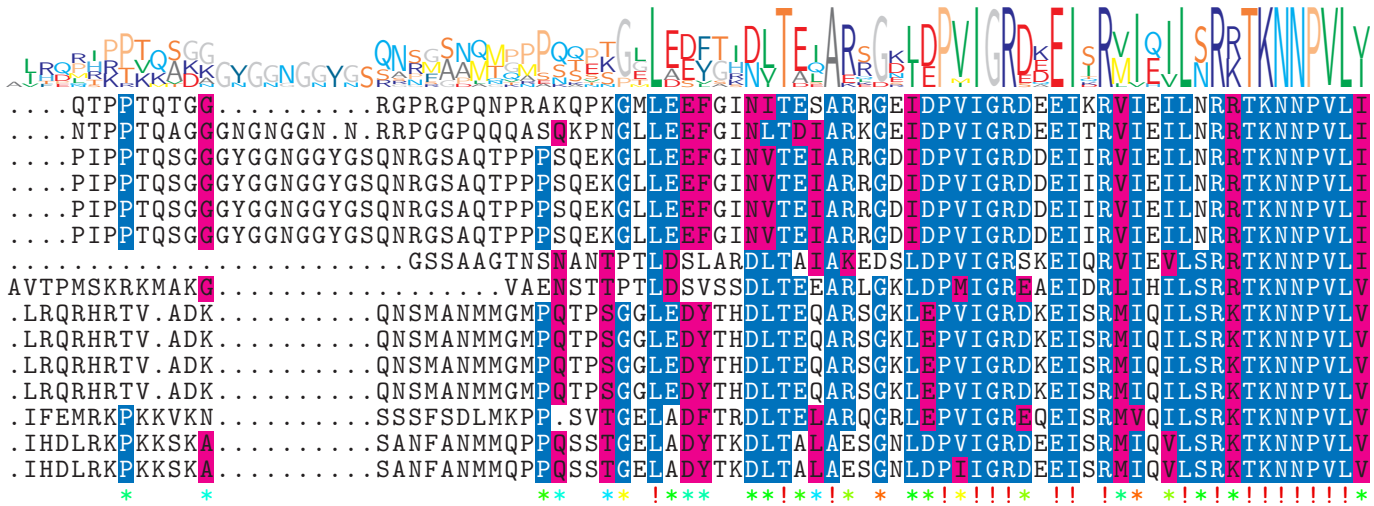
Accession	Species	Gene	Protein	Length
NTDB id 601	KW2	RS02615	WP 021036805.1	13
NTDB id 378	SMU	RS02690	WP 002263569.1	13
NTDB id 281	KZH43	RS03550	WP 000882517.1	13
NTDB id 245	SPD	RS03860	WP 000882517.1	13
NTDB id 243	SPR	RS03635	WP 000882517.1	13
NTDB id 241	SP	RS04015	WP 000882523.1	13
NTDB id 85	BSU	O0860	NP 387967.1	75
NTDB id 610	V4T04	RS10165	WP 012897346.1	77
NTDB id 287	SP	RS11210	WP 001109712.1	75
NTDB id 95244	QML87	RS10125	WP 001109701.1	75
NTDB id 290	KZH43	RS10025	WP 001109677.1	75
NTDB id 289	SPD	RS10700	WP 001109677.1	75
NTDB id 377	SMU	RS09275	WP 002262344.1	79
NTDB id 297	STER	RS00545	WP 011680614.1	81
NTDB id 329	STU	RS10020	WP 011225298.1	81
consensus				

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NTDB id 601 KW2 RS02615 WP 021036805.1	HL YTSVNGQKKQIDLCQNCYQI...MKS	GG	Q	EAL	FG	AGNAS	NGNSDE		PFNP	FND	I	FSA	L	GGQ	DFNGAASN	80																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 378 SMU RS02690 WP 002263569.1	HL YANVNGQKKQIDLCQNCYQI...MKTDP	ENG	PLNH	S	QQN	SSS		INP	FFD	DF	GD	L	NNF	R	AFNNQ	DLP	79																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 281 KZH43 RS03550 WP 000882517.1	HL YTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	M	TDL	NNRD		FDP	FG	DF	ND	L	NNFR	PSS	..TP	76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 245 SPD RS03860 WP 000882517.1	HL YTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	M	TDL	NNRD		FDP	FG	DF	ND	L	NNFR	PSS	..TP	76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 243 SPR RS03635 WP 000882517.1	HL YTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	M	TDL	NNRD		FDP	FG	DF	ND	L	NNFR	PSS	..TP	76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 241 SP RS04015 WP 000882523.1	HL YTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	M	TDL	NNRD		FDP	FG	DF	ND	L	NNFR	PSS	..TP	76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 85 BSU O0860 NP 387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYV	TE	HL	LL	GL	IRE	GEGVAARV	L	NNL	GV	SL	NK	AR	Q	QVL	QL		L	GS	NET		147																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 610 V4T04 RS10165 WP 012897346.1	STLRFSPRAFEVMTAASFLAIHNNSEAV	TE	HL	Y	ALL	QVE	D	FG	L	QL	KL		Q	KIN	I	V	S	R	K	E	L	E	K	R	T	G	L	K	V	P	E	S	K	K	153																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB id 287 SP RS11210 WP 001109712.1	TELPFSRRLQVLFD	E	A	E	Y	V	A	S	V	H	A	K	V	L	T	E	H	V	L	A	I	L	H	D	S	N	A	L	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	L	E	E	R	A	G	W	T	R	E	D	L	K	A	160																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 95244 QML87 RS10125 WP 001109701.1	TELPFSRRLQVLFD	E	A	E	Y	V	A	S	V	H	A	K	V	L	T	E	H	V	L	A	I	L	H	D	S	N	A	L	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	L	E	E	R	A	G	W	T	R	E	D	L	K	A	160																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 290 KZH43 RS10025 WP 001109677.1	TELPFSRRLQILFD	E	A	E	Y	V	A	S	V	H	A	K	V	L	T	E	H	V	L	A	I	L	H	D	S	N	A	L	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	L	E	E	R	A	G	W	T	R	E	D	L	K	A	160																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 289 SPD RS10700 WP 001109677.1	TELPFSRRLQILFD	E	A	E	Y	V	A	S	V	H	A	K	V	L	T	E	H	V	L	A	I	L	H	D	S	N	A	L	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	L	E	E	R	A	G	W	T	R	E	D	L	K	A	160																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 377 SMU RS09275 WP 002262344.1	MILEQSHALKRTL	E	A	E	A	A	I	S	Q	V	T	H	A	K	E	V	T	E	H	V	L	F	A	M	L	N	P	M	L	A	T	R	I	L	E	L	V	G	F	H	A	K	D	D	G	E	S	I	R	L	L	D	R	K	V	T	E	R	Y	A	G	F	S	K	E	D	I	K	A	164																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 329 STER RS00545 WP 011680614.1	DLRAQSPALEAML	Q	E	A	Q	E	I	A	S	V	T	G	A	E	V	G	S	E	H	V	L	M	A	F	L	L	H	K	D	L	M	V	C	R	L	E	V	A	G	F	Q	Y	K	D	S	D	K	P	R	I	I	D	L	R	R	S	L	E	R	N	A	G	L	S	K	Q	D	L	K	A	166																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB id 297 STU RS10020 WP 011225298.1	DLRAQSPALEAML	Q	E	A	Q	G	I	A	S	V	T	G	A	E	V	G	S	E	H	V	L	M	A	F	L	L	H	K	D	L	M	V	C	R	L	E	V	A	G	F	Q	Y	K	D	S	D	K	P	R	I	I	D	L	R	R	S	L	E	R	N	A	G	L	S	K	Q	D	L	K	A	166																																																																																																																																																																																																																																																																																																																																																																																																																																																
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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
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 241 SP RS04015 WP 000882523.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 95244 QML87 RS10125 WP 001109701.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
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NTDB id 241 SP RS04015 WP 000882523.1
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NTDB id 95244 QML87 RS10125 WP 001109701.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
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	E	V	T	D	E	M	P	V	I	T	E	K	D	I	E	Q	I	V	E	Q	K	T	I	P	V	G	D	L	K	E	K	E	Q	T	Q	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	V	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	281	KZH43	RS03550	WP	000882517.1	K	I	T	D	Q	D	T	P	I	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	I	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	I	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	241	SP	RS04015	WP	000882523.1	K	I	T	D	Q	D	T	P	S	I	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	85	BSU	O0860	NP	387967.1	E	K	Q	Q	E	N	S	E	V	T	V	D	I	A	M	V	V	S	S	W	T	G	V	P	V	S	K	I	A	Q	T	E	T	D	K	L	L	N	M	E	N	T	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	S	V	K	E	D	K	R	Q	E	V	T	D	Q	A	V	V	A	V	A	S	T	L	T	G	V	P	I	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	287	SP	RS11210	WP	001109712.1	E	V	P</																																																																																				

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NTDB	id	601	KW2	RS02615	WP	021036805.1	TGVGKTELAKQLAKEI	LF	GSSES	MIR	FD	MSEYMEK	HSV	AK	LI	GAPPGYVGY	EE	AQ	LT	ERV	RNP	YS	L	ILL	DE	TE	KA	HPD	V	MH	MFL	567																																						
NTDB	id	378	SMU	RS02690	WP	002263569.1	TGVGKTEL	SK	QL	AI	EL	LF	GS	ED	SM	IR	FD	MSEYMEK	HAV	AK	LV	GAPPGYVGY	EE	AQ	LT	EV	KA	HPD	V	MH	MFL	574																																						
NTDB	id	281	KZH43	RS03550	WP	000882517.1	TGVGKTEL	SK	QL	AI	EL	LF	GS	ADS	M	IR	FD	MSEYMEK	HSV	AK	LV	GAPPGYVGY	DE	AQ	LT	EV	KA	HPD	V	MH	MFL	573																																						
NTDB	id	245	SPD	RS03860	WP	000882517.1	TGVGKTEL	SK	QL	AI	EL	LF	GS	ADS	M	IR	FD	MSEYMEK	HSV	AK	LV	GAPPGYVGY	DE	AQ	LT	EV	KA	HPD	V	MH	MFL	573																																						
NTDB	id	243	SPR	RS03635	WP	000882517.1	TGVGKTEL	SK	QL	AI	EL	LF	GS	ADS	M	IR	FD	MSEYMEK	HSV	AK	LV	GAPPGYVGY	DE	AQ	LT	EV	KA	HPD	V	MH	MFL	573																																						
NTDB	id	241	SP	RS04015	WP	000882523.1	TGVGKTEL	SK	QL	AI	EL	LF	GS	ADS	M	IR	FD	MSEYMEK	HSV	AK	LV	GAPPGYVGY	DE	AQ	LT	EV	KA	HPD	V	MH	MFL	573																																						
NTDB	id	85	BSU	00860	NP	387967.1	TGVGKTEL	RA	LA	ES	IF	GD	E	ES	M	IR	I	D	MSEYMEK	HST	S	R	L	V	C	S	P	P	G	Y	V	G	Y	DE	GG	Q	L	T	E	V	R	R	K	P	Y	S	V	L	L	D	E	T	E	K	A	H	P	D	V	F	N	I	L	631						
NTDB	id	610	V4T04	RS10165	WP	012897346.1	TGVGKTEL	AK	AL	AD	SV	FG	S	ED	N	M	I	R	V	D	MSE	F	MEK	HST	S	R	L	I	G	A	P	P	G	Y	V	G	Y	DE	GG	Q	L	T	E	V	R	R	K	P	Y	S	V	L	L	D	E	V	E	K	A	H	P	D	V	F	N	I	M	L	640	
NTDB	id	287	SP	RS11210	WP	001109712.1	TGVGKTEL	AK	AL	AE	V	L	F	D	DE	ES	AL	I	R	FD	MSEYMEK	F	AA	S	R	L	N	G	A	P	P	G	Y	V	G	Y	EE	G	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	L	F	D	E	V	E	K	A	H	P	D	I	F	N	V	L	635
NTDB	id	95244	QML87	RS10125	WP	001109701.1	TGVGKTEL	AK	AL	AE	V	L	F	D	DE	ES	AL	I	R	FD	MSEYMEK	F	AA	S	R	L	N	G	A	P	P	G	Y	V	G	Y	EE	G	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	L	F	D	E	V	E	K	A	H	P	D	I	F	N	V	L	635
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TGVGKTEL	AK	AL	AE	V	L	F	D	DE	ES	AL	I	R	FD	MSEYMEK	F	AA	S	R	L	N	G	A	P	P	G	Y	V	G	Y	EE	G	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	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	AK	AL	AE	V	L	F	D	DE	ES	AL	I	R	FD	MSEYMEK	F	AA	S	R	L	N	G	A	P	P	G	Y	V	G	Y	EE	G	G	E	L	T	E	K	V	R	N	K	P	Y	S	V	L	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	AK	AL	AE	V	L	F	D	DE	ES	AL	I	R	FD	MSEYMEK	F	AA	S	R	L	N	G	A	P	P	G	Y	V	G	Y	EE	G	G																															

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
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 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 95244 QML87 RS10125 WP 001109701.1	KFDIA.....	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	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