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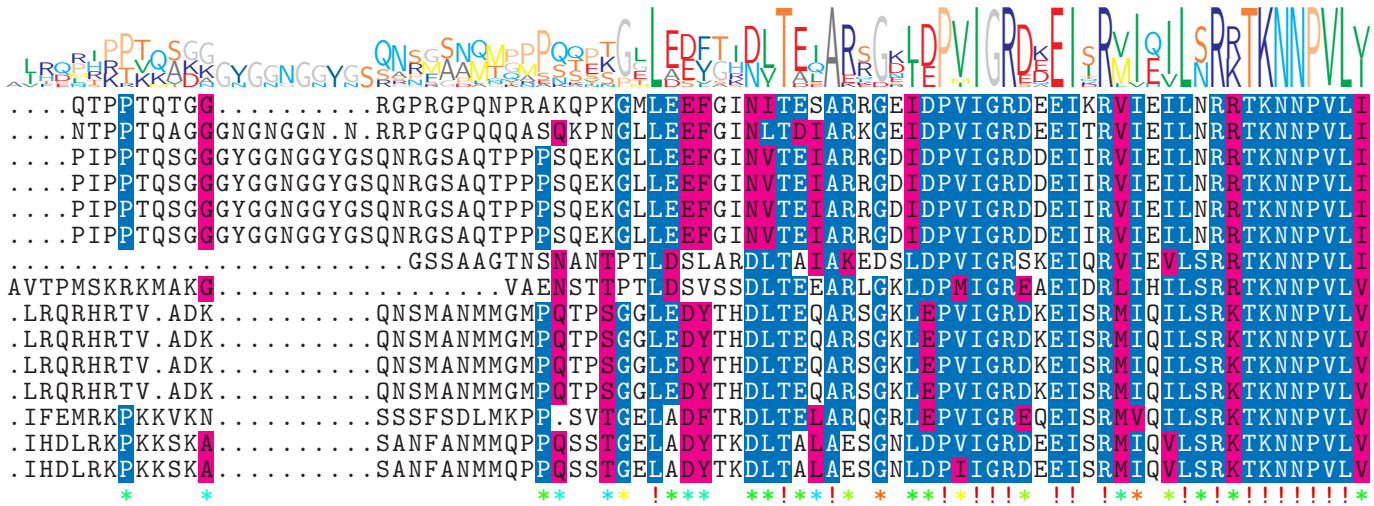
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NTDB	id	281	KZH43	RS03550	WP	000882517.1	HL	YTNLNG	KKKQ	ID	LCQNCYK	I...	I	K	T	D	P	N	S	L	F	K	G	M	T	D	L	N	N	R	D		F	D	P	.	F	G	D	F	F	N	D	.	L	N	N	F	R	P	S	S	N	..	T	P	.	76																																																																																																																																																																																																																																																																																																																																																																																																																																																
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NTDB	id	85	BSU	O0860	NP	387967.1	Q	T	I	H	Y	T	P	R	A	K	K	V	I	E	L	S	M	D	E	A	R	K	L	G	H	S	Y	V	G	T	E	H	I	L	L	G	L	I	R	E	G	E	G	V	A	A	R	.	V	.	L	N	N	L	G	V	S	L	N	K	A	R	Q	Q	V	L	Q	L		L	G	S	N	E	T		147																																																																																																																																																																																																																																																																																																																																																																																																																							
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NTDB id 241 SP RS04015 WP 000882523.1
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NTDB id 329 STU RS10020 WP 011225298.1
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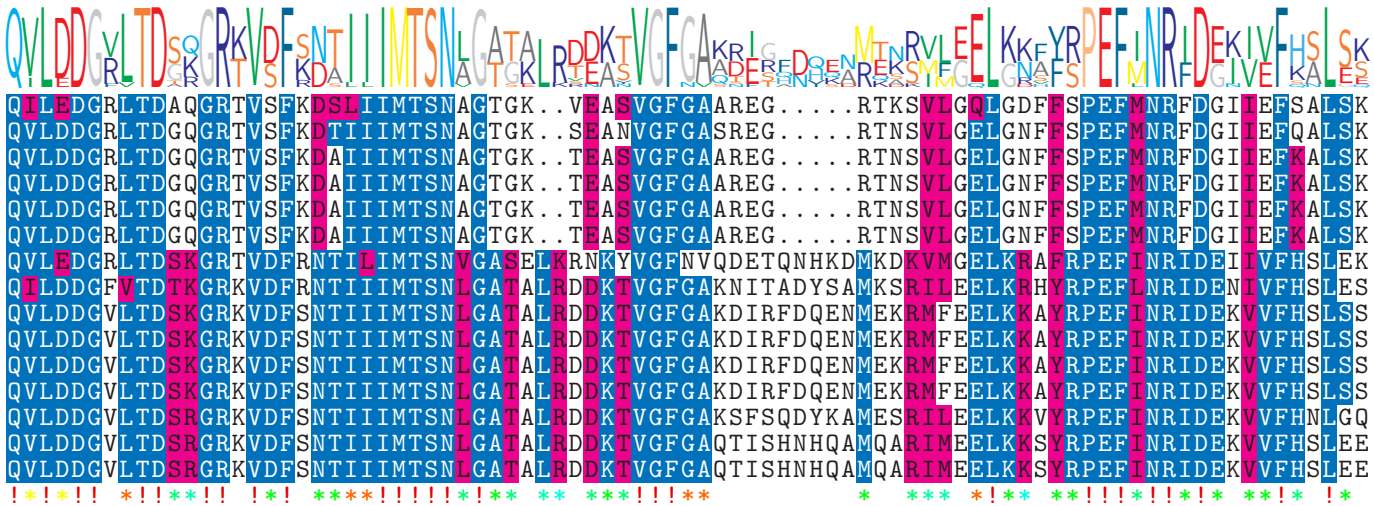
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NTDB	id	610	V4T04	RS10165	WP	012897346.1	LSVRYMT	SRKLPDKAIDLLDEAAAIVKISVKNNQQTKRLDLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEKIADKIYKF.....	470
NTDB	id	98706	R8615	RS10475	WP	061714020.1	MAHRYLT	SRHLPDSAIDLLDEAAATVQNKAKEYVKADSDSL....S....PADKALMDGKWQAQLIAKE.....E.....	466
NTDB	id	290	KZH43	RS10025	WP	001109677.1	MAHRYLT	SRHLPDSAIDLLDEAAATVQNKAKEYVKADSDSL....S....PADKALMDGKWQAQLIAKE.....E.....	466
NTDB	id	289	SPD	RS10700	WP	001109677.1	MAHRYLT	SRHLPDSAIDLLDEAAATVQNKAKEYVKADSDSL....S....PADKALMDGKWQAQLIAKE.....E.....	466
NTDB	id	287	SP	RS11210	WP	001109712.1	MAHRYLT	SRHLPDSAIDLLDEAAATVQNKAKEYVKADSDSL....S....PADKALMDGKWQAQLIAKE.....E.....	466
NTDB	id	377	SMU	RS09275	WP	002262344.1	GAHRYLS	GKNLPDS AIDLLDEASATVQGLVK..KKAPAYL....T...DLDHALITNDYQLAKRLLKKE.....K.....	468
NTDB	id	329	STER	RS00545	WP	011680614.1	AAHRYLT	SKNLPDS AIDLLDEASATVQVRIR..KEDKREI....T...PLDEALISGDIGAAVKQYKAN.....Q.....	471
NTDB	id	297	STU	RS10020	WP	011225298.1	AAHRYLT	SKNLPDS AIDLLDEASATVQVRIR..KEAKREI....T...PLDEALISGDIGAAVKQYKAN.....Q.....	471
consensus							*	! ! * * * * * ! ! ! ! ! ! ! ! * ! ! * * * * * * * * * * ! * * * *	

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	I	Q	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	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	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	00860	NP	387967.1	E	K	Q	G	G	E	N	S	E	V	T	V	D	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	I	L	H	S	R	V	I	G	Q	D	E	A	V	A	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	V	G	Q	E	E	A	I	S	A	V	S	R	A	I	R	R	A	R	S	C	V	A	D	S	R	R	P	M	G	S	F	M	F	L	G	P		555
NTDB	id	98706	R8615	RS10475	WP	0617																																																																																							

NTDB	id	601	KW2	RS02615	WP	021036805.1	TGVGKTELAKQLAKELFGSSES	MIRFDMSEYMEKH	SVAKL	IGAPPGYVGY	EEAGQ	LTERVVRNPYS	LILL	DETEKAHPD	VMH	MFL	567		
NTDB	id	378	SMU	RS02690	WP	002263569.1	TGVGKTELAKQLAKELFGSED	SMIRFDMSEYMEKH	AVAKL	VGAPPGYVGY	EEAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	574		
NTDB	id	281	KZH43	RS03550	WP	000882517.1	TGVGKTELAKQLAKELFGSAD	SMIRFDMSEYMEKH	SVAKL	VGAPPGYVGY	DEAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573		
NTDB	id	245	SPD	RS03860	WP	000882517.1	TGVGKTELAKQLAKELFGSAD	SMIRFDMSEYMEKH	SVAKL	VGAPPGYVGY	DEAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573		
NTDB	id	243	SPR	RS03635	WP	000882517.1	TGVGKTELAKQLAKELFGSAD	SMIRFDMSEYMEKH	SVAKL	VGAPPGYVGY	DEAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573		
NTDB	id	241	SP	RS04015	WP	000882523.1	TGVGKTELAKQLAKELFGSAD	SMIRFDMSEYMEKH	SVAKL	VGAPPGYVGY	DEAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573		
NTDB	id	85	BSU	00860	NP	387967.1	TGVGKTELAKALAE	SIFGDEES	MIRIDMSEYMEKH	ST	SRLVG	SPPGYVGY	DEGGQ	LTEKVRNPYS	VLL	DETEKAHPD	VFN	ILL	631
NTDB	id	610	V4T04	RS10165	WP	012897346.1	TGVGKTELAKALADS	VFGSEDNM	IRVDMSEFMEKH	ST	SRL	IGAPPGYVGY	DEGGQ	LTERVVRNPYS	VLL	DEVEKAHPD	VFN	IML	640
NTDB	id	98706	R8615	RS10475	WP	061714020.1	TGVGKTELAKALAE	EVLFDD	ESALIRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGE	LTEKVRNPYS	VLL	DEVEKAHPD	IFN	VLL	635
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TGVGKTELAKALAE	EVLFDD	ESALIRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGE	LTEKVRNPYS	VLL	DEVEKAHPD	IFN	VLL	635
NTDB	id	289	SPD	RS10700	WP	001109677.1	TGVGKTELAKALAE	EVLFDD	ESALIRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGE	LTEKVRNPYS	VLL	DEVEKAHPD	IFN	VLL	635
NTDB	id	287	SP	RS11210	WP	001109712.1	TGVGKTELAKALAE	EVLFDD	ESALIRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGE	LTEKVRNPYS	VLL	DEVEKAHPD	IFN	VLL	635
NTDB	id	377	SMU	RS09275	WP	002262344.1	TGVGKTELAKALAE	EVLFDD	ESALIRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGE	LTEKVRNPYS	VLL	DEVEKAHPD	IFN	ILL	638
NTDB	id	297	STER	RS00545	WP	011680614.1	TGVGKTELAKALAE	EVLFDD	ESALLRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	DEGGE	LTEKVRNPYS	VLL	DETEKAHPD	IFN	ILL	641
NTDB	id	329	STU	RS10020	WP	011225298.1	TGVGKTELAKALAE	EVLFDD	ESALLRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	DEGGE	LTEKVRNPYS	VLL	DETEKAHPD	IFN	VLL	641
consensus								*** * *	*	*	*** * *	***	*	*** * *	***	*** *	***		

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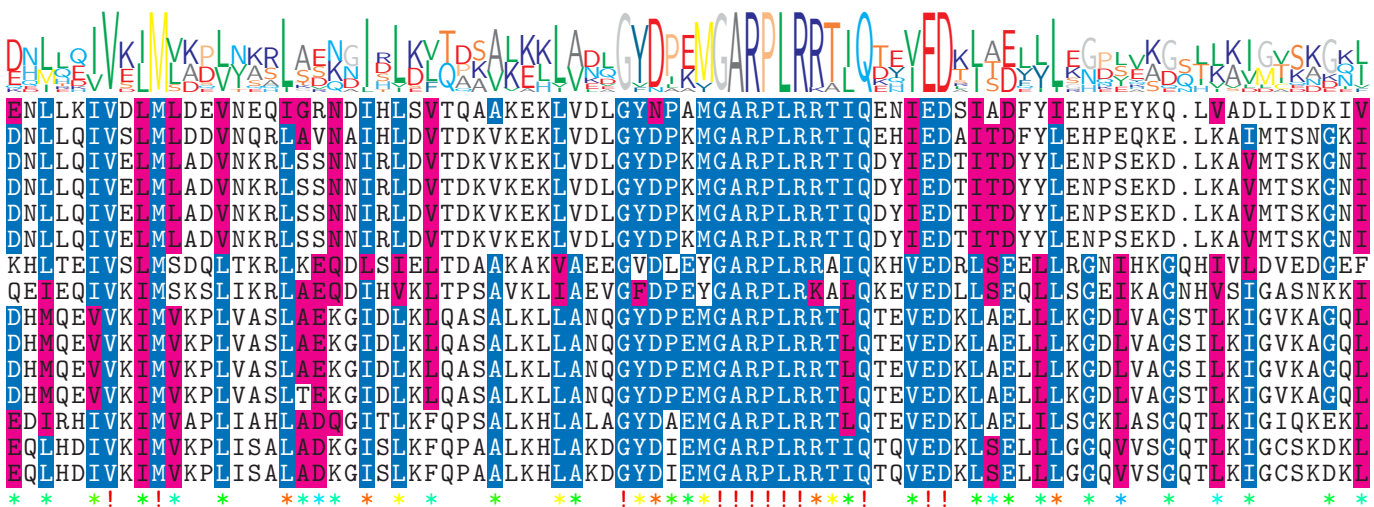
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 98706 R8615 RS10475 WP 061714020.1
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
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 98706 R8615 RS10475 WP 061714020.1
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	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
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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