

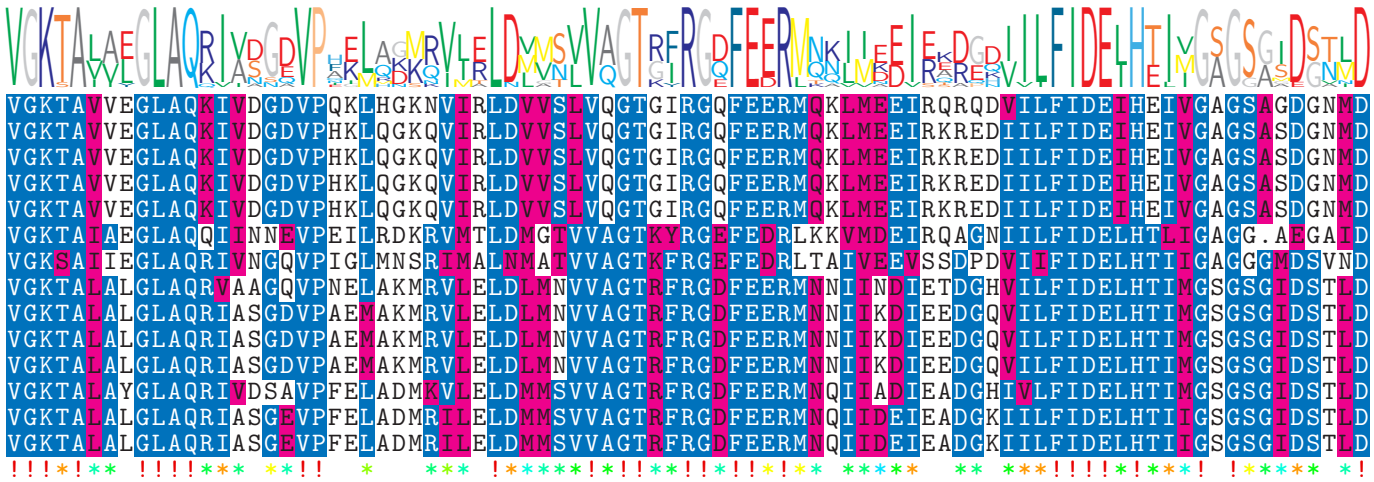
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NTDB id 281	KZH43 RS03550 WP 000882517.1	MLCQCKINDST.....I	13
NTDB id 245	SPD RS03860 WP 000882517.1	MLCQCKINDST.....I	13
NTDB id 243	SPR RS03635 WP 000882517.1	MLCQCKINDST.....I	13
NTDB id 241	SP RS04015 WP 000882523.1	MLCQCKINDST.....I	13
NTDB id 85	BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLI.....GRGQEMS	75
NTDB id 610	V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAE EYAHQVQYGTIESAHLIAAMATTSGSIAYSLLAGMNVDSDDLIDLE.....DLSSHVKVKR	77
NTDB id 121190	DK43 RS01100 WP 003028723.1	MKYSKALTESIESAQLLASHFETDYLESWHLLIAMANNPYSVAGSVLNDYPLEIDDFE..KA...AFHITGKIYQQEGSF	75
NTDB id 287	SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE..EV...ALELTETDYSQDET	75
NTDB id 290	KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE..EV...ALELTETDYSQDET	75
NTDB id 289	SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE..EV...ALELTETDYSQDET	75
NTDB id 377	SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRFEDYQAAAILAIGKKPKSSSN..DT	79
NTDB id 329	STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSSEDI	81
NTDB id 297	STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSSEDI	81
consensus		*** * * * * * * * *	

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NTDB	id	241	SP	RS04015	WP	00088523.1	HLYTNLNGKQKKQIDLCQNCYKII...KTDPNNS	LFKGMTD.....LNNR.....DFDP.FGD	FFNDLNNFRPSSN..TPP	77				
NTDB	id	85	BSU	00860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYV	GTEHILLGLIREGEGVAARVLNNL	CVSLNKARQQVLQL.....LGSNET....	147				
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFS	SPRAEEVMTAASF	LAIHNNSEAVGTEHLLYALLQVEDG	FGFLQLKL.....QKINVS	LRKELEKRTGLKVPESKK	153		
NTDB	id	121190	DK43	RS01100	WP	003028723.1	TIWPF	SHRMKVFLFTAKRIA	EAVHAKNLGTEHVL	LAMLFDRGSLAARL	LEFTGFSYEDKEGV	LRMTDLRKNLEHKASWGKEDIKA	160	
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFS	RRLLQILFDEAEYV	ASVVHAKVLGTEHVL	YAILHDSNALATRIL	ERACFSYEDKKDQVKI	IAALRRNLEERAGWTREDLKA	160	
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFS	RRLLQILFDEAEYV	ASVVHAKVLGTEHVL	YAILHDSNALATRIL	ERACFSYEDKKDQVKI	IAALRRNLEERAGWTREDLKA	160	
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NTDB	id	329	STU	RS10020	WP	011225298.1	DLRAQ	SPALEAMLQEAQGI	ASVTGAVEVGSEHV	LMAFLHLKDL	MVCRLEVAG	GFQYKDDSDKPRI	IDLRRSLERNAGLSKQDLKA	166
NTDB	id	297	STER	RS00545	WP	011680614.1	DLRAQ	SPALEAMLQEAQGI	ASVTGAVEVGSEHV	LMAFLHLKDL	MVCRLEVAG	GFQYKDDSDKPRI	IDLRRSLERNAGLSKQDLKA	166
consensus							* * * * *	* * * * *	* * * * *	* * * * *	* * * * *			

NTDB	id	378	SMU	RS02690	WP	002263569.1	.TPPTQAGG	CNGNGGN.N.RRPG	CPQQQAS	QKPN	GLEEF	GIN	LT	DI	ARK	GE	DPVIGR	DE	EI	TR	VI	EI	LN	RR	TKNN	PVL	IG	EP	G	162																																																						
NTDB	id	281	KZH43	RS03550	WP	000882517.1	.IPPTQSGG	CYGGNGGYGSQ	NRGSAQ	TPPP	SQEK	CLLEEF	GIN	V	TE	I	ARR	GD	DPVIGR	DD	EI	TR	VI	EI	LN	RR	TKNN	PVL	IG	EP	G	161																																																				
NTDB	id	245	SPD	RS03860	WP	000882517.1	.IPPTQSGG	CYGGNGGYGSQ	NRGSAQ	TPPP	SQEK	CLLEEF	GIN	V	TE	I	ARR	GD	DPVIGR	DD	EI	TR	VI	EI	LN	RR	TKNN	PVL	IG	EP	G	161																																																				
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NTDB	id	241	SP	RS04015	WP	000882523.1	.IPPTQSGG	CYGGNGGYGSQ	NRGSAQ	TPPP	SQEK	CLLEEF	GIN	V	TE	I	ARR	GD	DPVIGR	DD	EI	TR	VI	EI	LN	RR	TKNN	PVL	IG	EP	G	161																																																				
NTDB	id	85	BSU	00860	NP	387967.1			GS.SAAGTNS	NANTPT	LD	SLAR	DL	T	A	L	A	K	EDS	LDPVIGR	SKEI	Q	R	V	E	I	LN	RR	TKNN	PVL	IG	EP	G	211																																																		
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NTDB	id	287	SP	RS11210	WP	001109712.1	.L	R	Q	R	H	R	T	V	A			DKQ	N	S	M	A	N	M	M	G	M	P	Q	T	P	S	G	G	L	E	D	Y	T	H	D	L	T	E	Q	A	R	S	G	K	L	E	P	V	I	G	R	D	K	E	I	S	R	M	I	Q	I	L	S	R	K	T	K	N	N	P	V	L	V	G	E	P	G	237
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NTDB	id	377	SMU	RS09275	WP	002262344.1	.I	F	E	M	R	K	P	K	K			VKN	S	S	S	F	S	D	L	M	K	P	P	S	V	T	G	E	L	A	D	F	T	R	D	L	T	E	L	A	R	Q	G	R	L	E	P	V	I	G	R	D	E	I	S	R	M	I	Q	I																		

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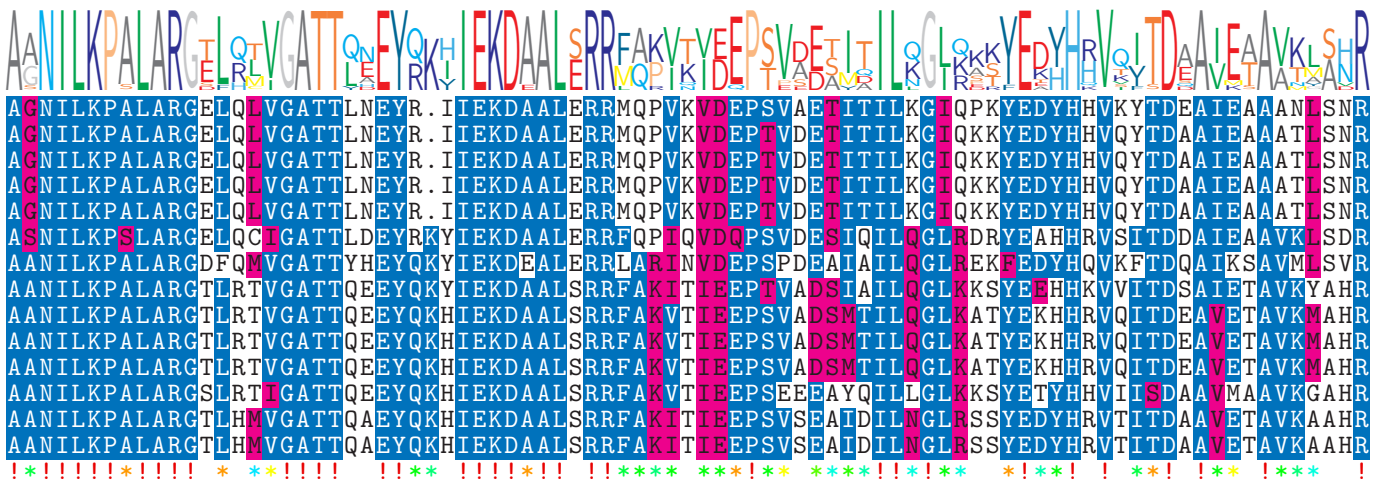
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NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus



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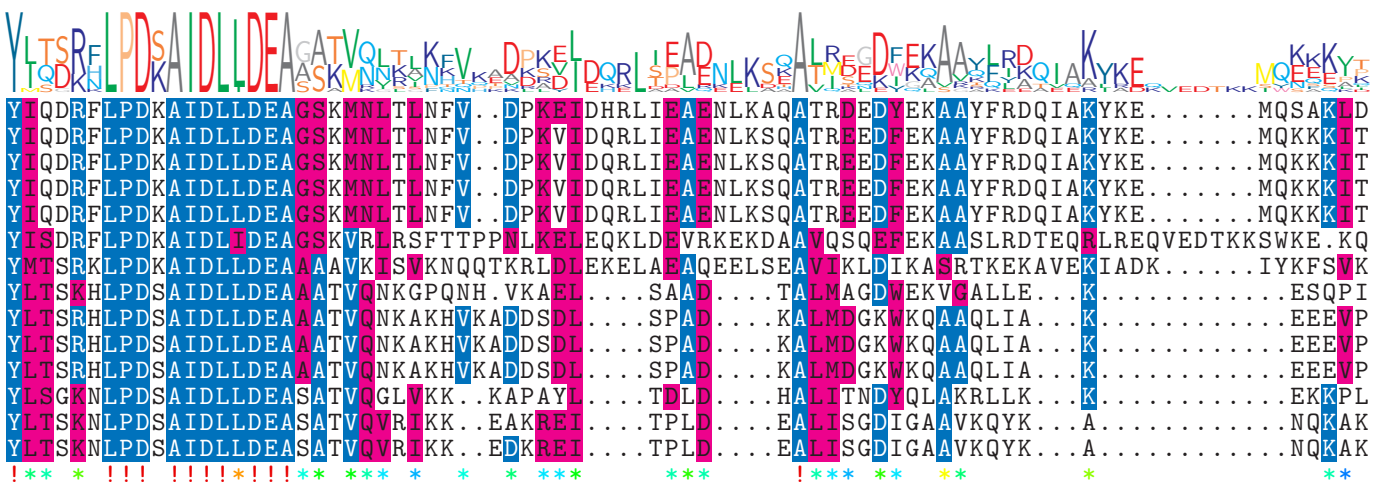
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NTDB id 329 STU RS10020 WP 011225298.1
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NTDB id 241 SP RS04015 WP 000882523.1	LQIVELMLADVNRKLSNNIRLDVTDKVKKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIK	738
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NTDB id 290 KZH43 RS10025 WP 001109677.1	QEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGD LVAGSILKIGVKAGQLKFD	808
NTDB id 289 SPD RS10700 WP 001109677.1	QEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGD LVAGSILKIGVKAGQLKFD	808
NTDB id 377 SMU RS09275 WP 002262344.1	RHIVKIMVAPLIAHLADQGITLKFQPSALKHLALAGYDAEMGARPLRRTLQTEVEDKLAELTL SGKLASGQTLKIGIQKEKLKFD	811
NTDB id 329 STU RS10020 WP 011225298.1	HDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSGQTLKIGCSKDKLTFT	814
NTDB id 297 STER RS00545 WP 011680614.1	HDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSGQTLKIGCSKDKLTFT	814
consensus	***** ** !***** *** *** * !*****!!!!!!*!! *!! *** *! * * * * * * * *	

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NTDB id 85 BSU 00860 NP 387967.1	TTAKTN.....	810
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NTDB id 287 SP RS11210 WP 001109712.1	IA.....	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	IA.....	810
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consensus		

-  non conserved
-  similar
-  ≥ 50% conserved