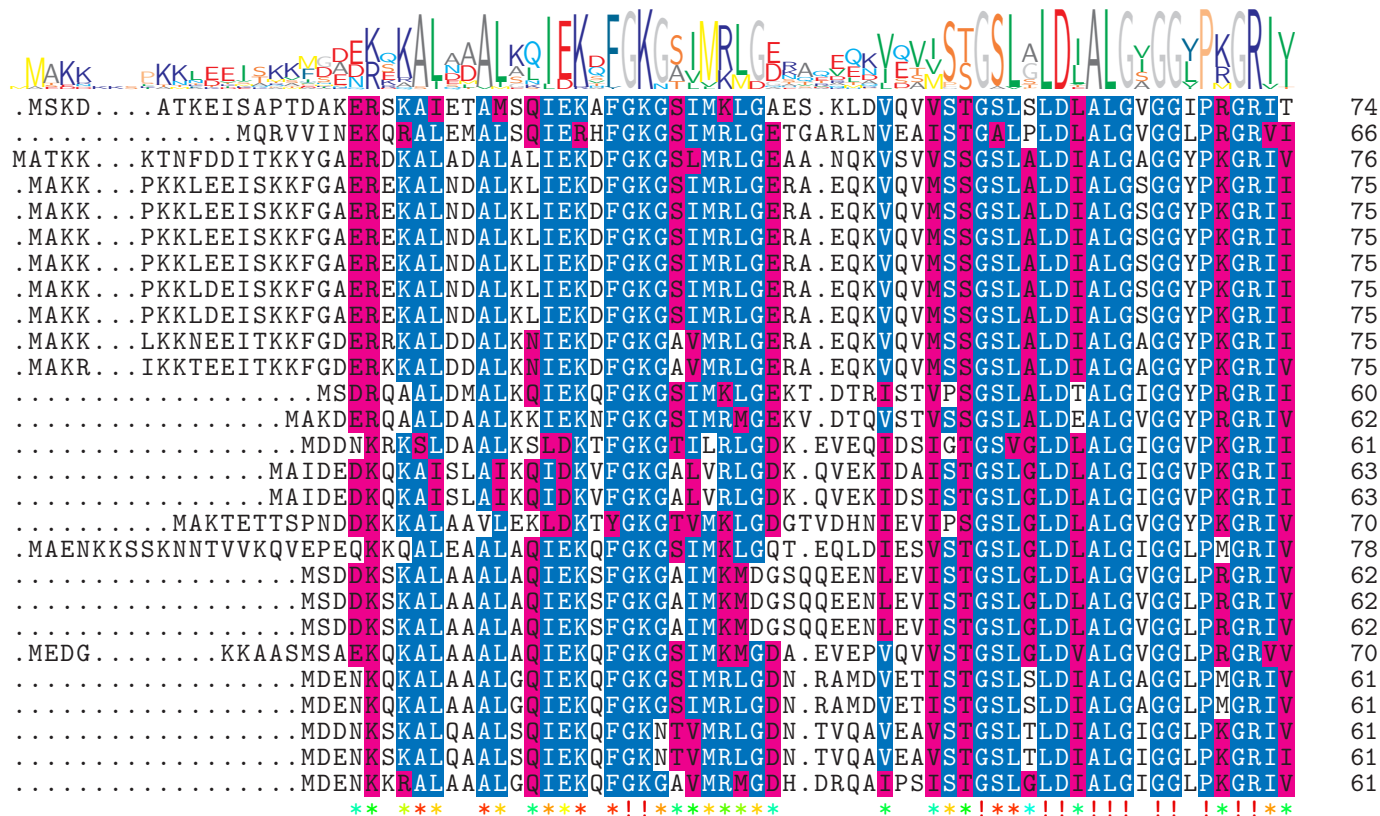


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NTDB id 1142 GTF74 RS11550 WP 000344154.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

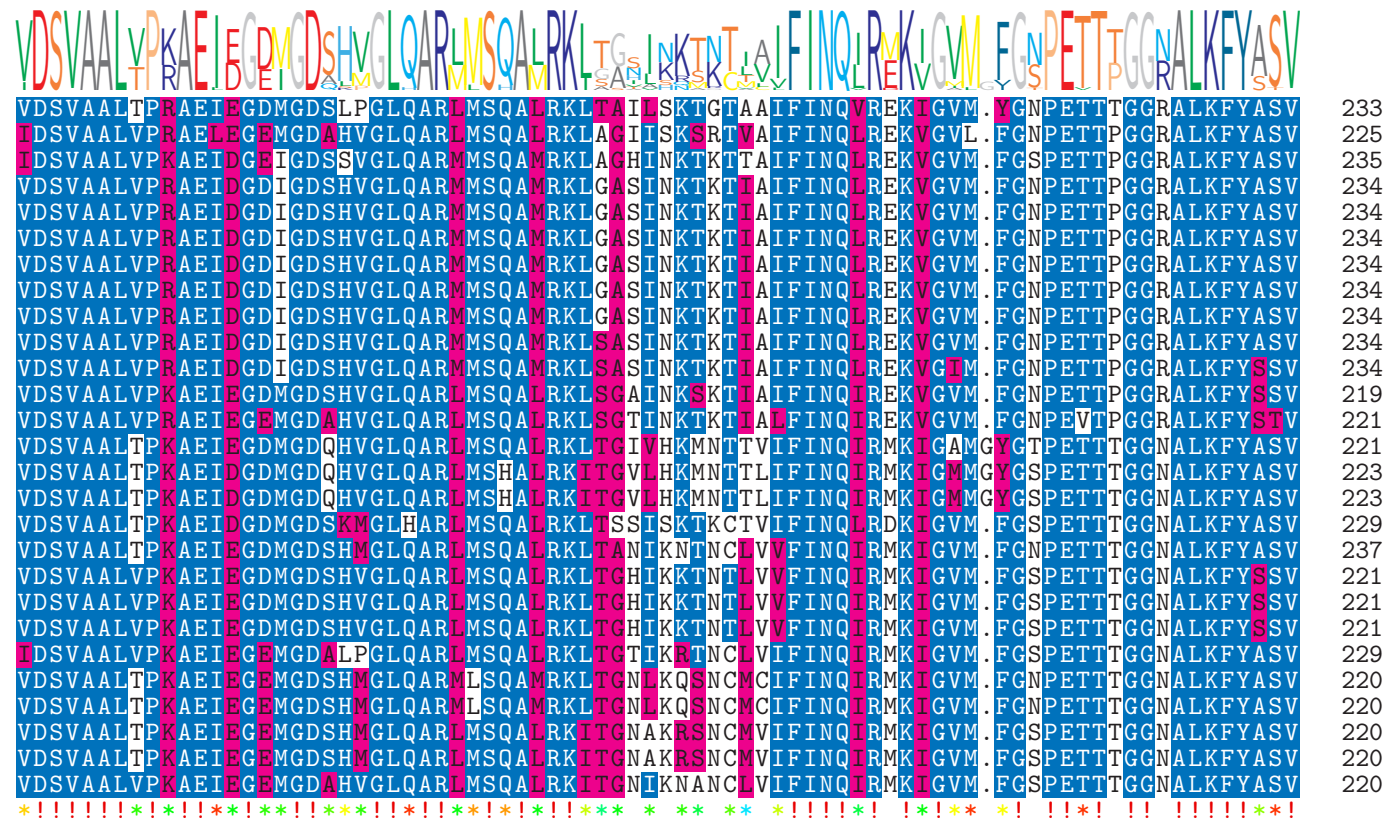
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NTDB id 600 KW2 RS01765 WP 011675413.1	EIYGPESGKTTT	156
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIYGPESGKTTT	155
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	EIYGPESGKTTT	143
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NTDB id 1334 RAOC RS04870 WP 004918236.1	EIYGPESGKTTT	150
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 1313 DR RS12030 WP 010888966.1	RLDVRKIGQ...PTKVGND	AVANTV	IKTVKNKV	APPFKE	VELALV	YGKG	FDQLS	DLVGL	AADMD	IIKK	KAGS	FYSY	GD	309
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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQ	IGKITK	IKVVKNKV	APPFK	VALVD	IMF	GEGIS	ST	GELLN	IA	VEEG	IIKK	SGAW	314
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASD	LD	IIKK	AGAW	313
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASD	LD	IIKK	AGAW	313
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASD	LD	IIKK	AGAW	313
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASD	LD	IIKK	AGAW	313
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVE	IMY	GEGIS	KT	GELLK	IASD	LD	IIKK	AGAW	313
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVE	IMY	GEGIS	KT	GELLK	IASD	LD	IIKK	AGAW	313
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRGTTQIKGTG.DQKDSS	IGKETK	IKVVKNKV	APPFK	VAEVE	IMY	GEGIS	R	TGELV	KIASD	LD	IIQK	AGAW	313
NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRGNTQIKGTG.EQKDSN	IGKETK	IKVVKNKV	APPFKE	AFVE	IIY	GEGIS	R	TGELV	KIASD	LG	IIQK	AGAW	313
NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN.....DVMGN	KT	IKVVKNKV	APPFRT	AEVD	IMY	GEGIS	KE	GE	IIDL	GT	ELDI	VQKSG	294
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRAEITIKNGT.....DMIGN	RA	IKVVKNKV	APPFK	VAEVD	IMY	G	QIS	R	TGELV	DMA	VEKDI	INKSG	296
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRA	KVVKNKV	APPFRE	AEFD	IMF	GEGIS	KE	GE	IIDY	GVK	LDIV	DKSG	298
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRA	KVVKNKV	APPFRE	AEFD	IMF	GEGIS	KE	GE	IIDY	GVK	LDIV	DKSG	298
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRSLSDTGKIKDKSGEV	IGNRT	KVVKNKV	APPFK	S	AEFD	IMY	GEG	VSKV	G	EILD	VATD	LDII	309
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGD	E	IGSET	KVVKNKV	APPF	REVQ	F	IMY	GEGIS	R	MNELL	ILAE	ANGF	312
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKG	EEVLGN	ETRVKVI	KNKV	APPFQ	AEFD	DILY	GEGIS	W	E	GELID	IGVKN	DI	296
NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKG	EEVLGN	ETRVKVI	KNKV	APPFQ	AEFD	DILY	GEGIS	W	E	GELID	IGVKN	DI	296
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEG	EEVVGNET	RIKVVKNK	IA	APPFKE	ANTQ	IMY	G	GFN	R	E	GELID	LG	295
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEG	DEIVGSET	KVVKNK	M	APPFKE	AI	FQ	I	LYG	K	GN	Q	LN	295
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEG	DEVVGS	ETRVKVVKNKV	APPFQ	AEFQ	I	LYG	K	GIY	R	N	GE	IIDL	295
consensus	!***!*	*	**	*****!***!!*!!*!!*	*	*****!*!***	*****	*	***	!	!*****			

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NTDB id 153872 MOTH RS05530 WP 011392593.1	RLGQGREAAKDFLREHPDLAAALETKIREKAGLINFTAGKEDATSGED.....		348
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETASKTKAKAKKKEEKAVETEEIELELED.....		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE		387
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NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGSSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEIE		383
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIED.		378
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NTDB id 115 BSU 16940 NP 389576.2	RLGQGRENAKQFLKENKDIMLMIQEIQIREHYGLDNNGVVQQAEETQEEL.EFE.E.....		348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....		355
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NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGRDITVKELIKDNPELAEELEAKIREKLQAK.....		343
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NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGDGER.....P.....EE.....		348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGDGER.....P.....EE.....		348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....		352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....		354
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ..I..EDEEEP.DLL..L.....ES.....		349
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....		347
consensus	***!!!!***** ** * *** ***** ** *		

NTDB	id	DR	RS	WP	010888966.1	.	363
NTDB	id	153872	MOTHA	RS05530	WP 011392593.1	.	348
NTDB	id	600	KW2	RS01765	WP 011675413.1	.	387
NTDB	id	269	KZH43	RS08665	WP 001085462.1	E	388
NTDB	id	228	SPD	RS09265	WP 001085462.1	E	388
NTDB	id	194	SPR	RS08825	WP 001085462.1	E	388
NTDB	id	159	SP	RS09750	WP 001085462.1	E	388
NTDB	id	527	SMSK321	RS11065	WP 001085454.1	E	384
NTDB	id	499	SM12261	RS08315	WP 078228268.1	E	384
NTDB	id	453	Spy49	1753c	ACI62003.1	.	378
NTDB	id	408	SMU	RS09530	WP 002262392.1	.	383
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NTDB	id	1334	RAOC	RS04870	WP 004918236.1	.	343
NTDB	id	1389	A4U84	RS07560	WP 021112712.1	.	372
NTDB	id	1130	NGFG	RS03960	WP 003688695.1	.	348
NTDB	id	1124	NGFG	RS03960	WP 003688695.1	.	348
NTDB	id	1123	OK783	RS03845	WP 003688695.1	.	348
NTDB	id	1427	RS	RS02760	WP 011000510.1	.	352
NTDB	id	1165	A1552VC	RS01565	WP 000344154.1	.	354
NTDB	id	1142	GTF74	RS11550	WP 000344154.1	.	354
NTDB	id	1022	ACIAD	RS06390	WP 004925639.1	.	349
NTDB	id	1074	ABD1	RS10195	WP 000344167.1	.	349
NTDB	id	1205	PSJM300	05545	AFN77183.1	.	347
consensus							

-  non conserved
-  similar
-  $\geq 50\%$ conserved