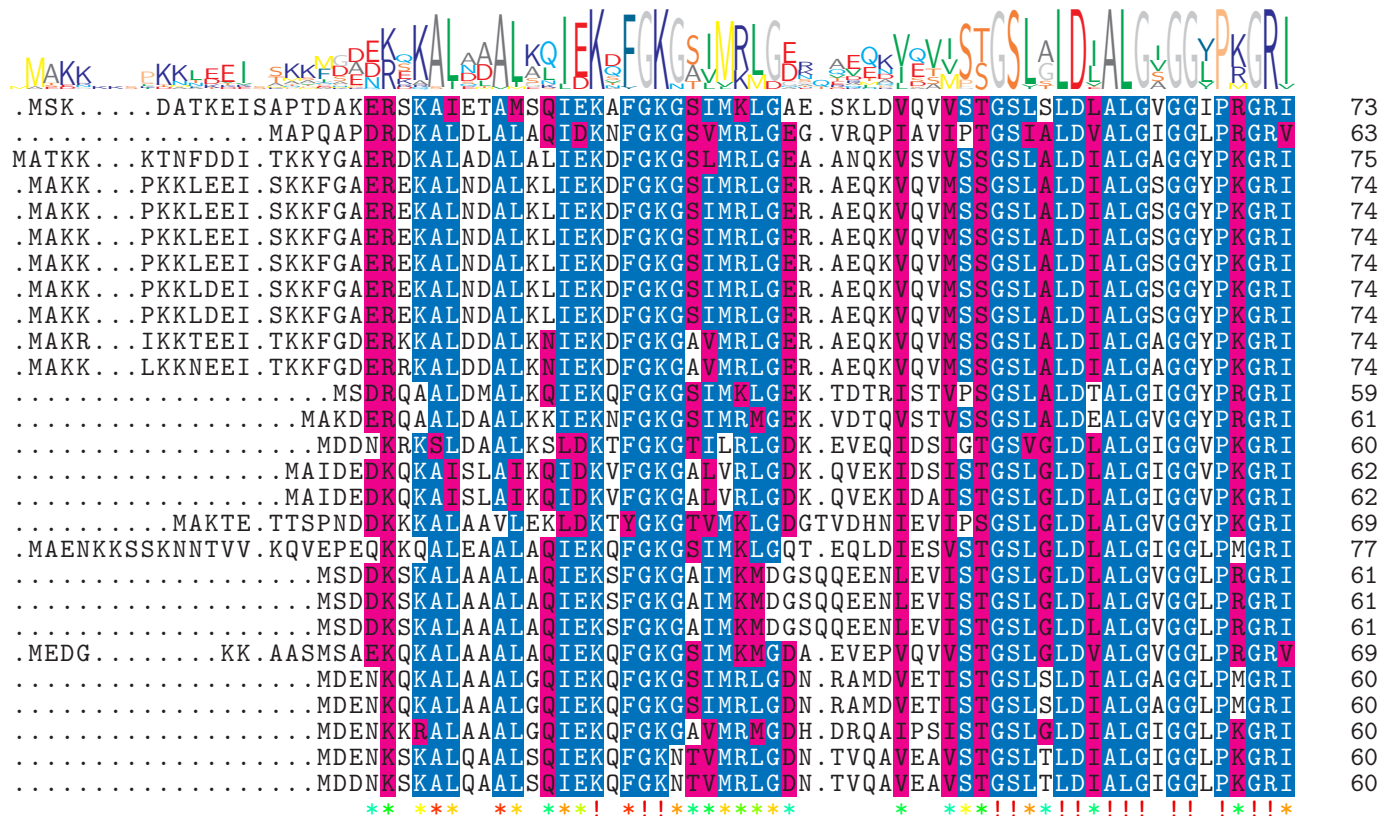


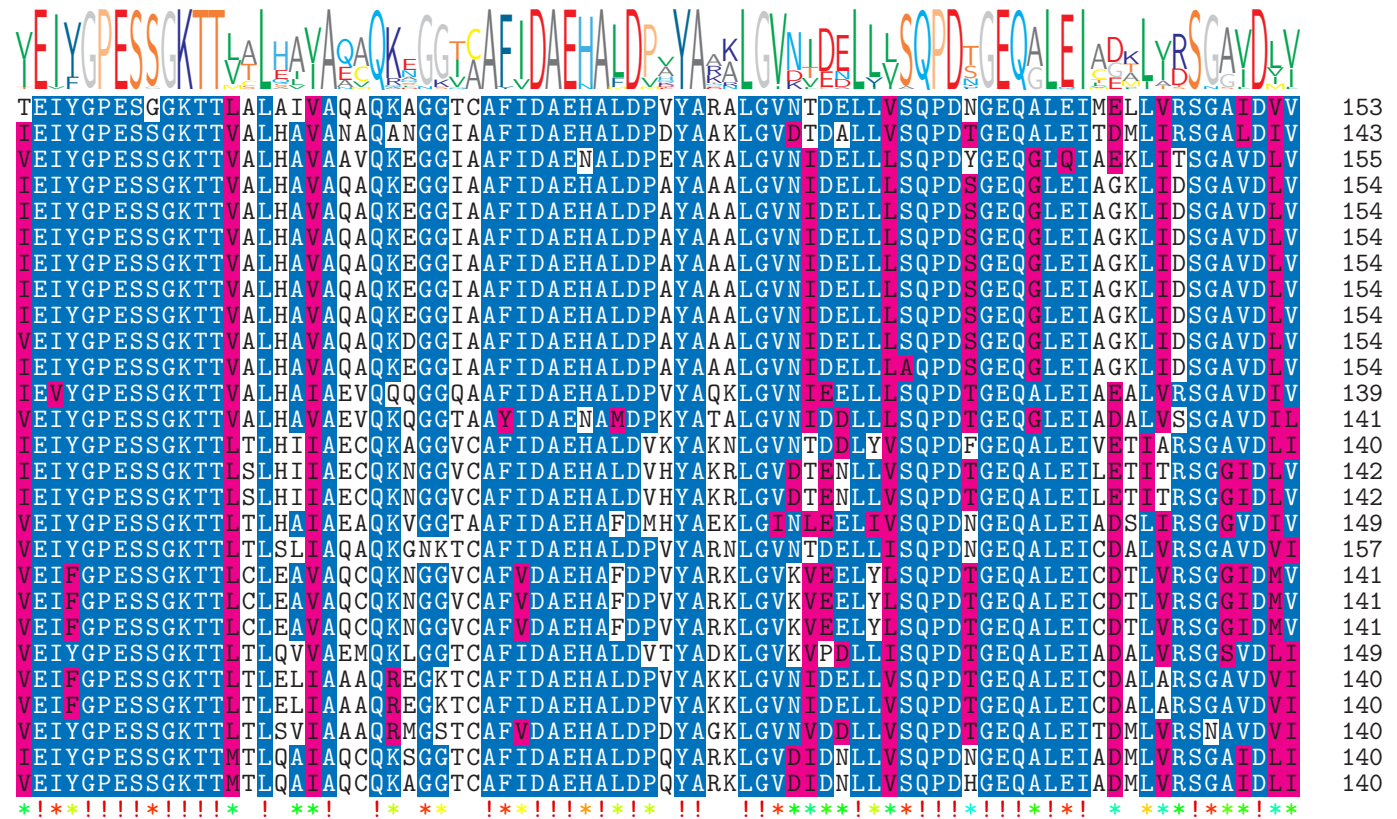
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
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consensus

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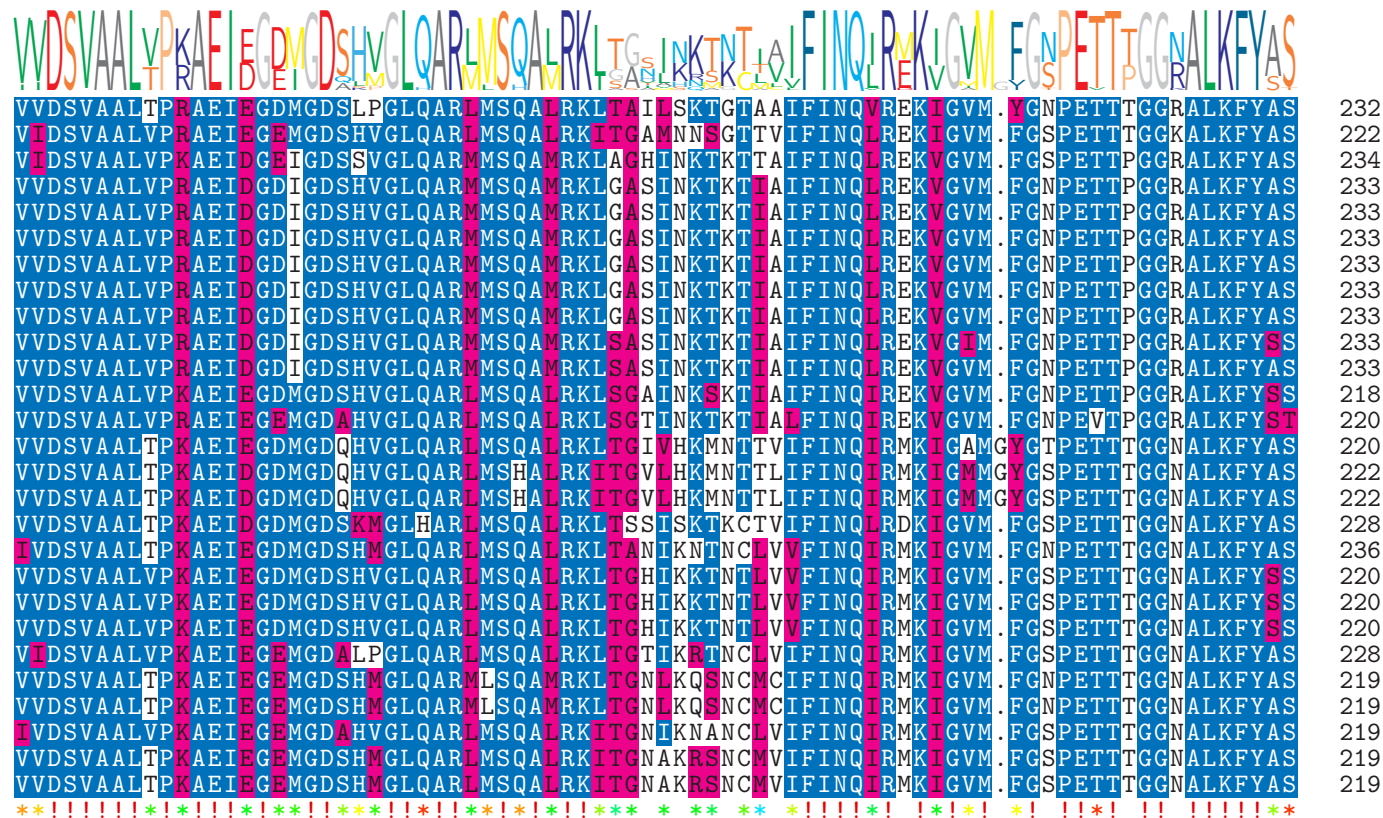
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
consensus



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NTDB id 1022 ACIAD RS06390 WP 004925639.1
consensus

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NTDB id 1313 DR RS12030 WP 010888966.1	VRLDVRKIGQ...PTKVGND	AVANTV	KIKTVKNKVA	APFKE	VELAL	VYGKG	FDQLS	DLVGL	AADM	DI	IKK	AGS	FYSY	GD	308
NTDB id 249497 CPI83 RS16145 WP 007735170.1	VRLDIRRIETLKDGT....DA	VGNRT	RVKVVKNKV	APPFK	QAEFD	DILY	GGIS	KEGSL	IDMG	VEHG	FIRK	SGS	WYT	YEG	297
NTDB id 600 KW2 RS01765 WP 011675413.1	VRLDVRGSTKIEEGS.GDNKT	QIGKIT	IKVVKNKV	APPFK	VALVD	IMF	GEGIS	STGELL	NI	AVEEG	TI	IKK	SGAW	FAYND	313
NTDB id 269 KZH43 RS08665 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKET	KIKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KTGELL	KI	ASDL	DI	IKK	AGAW	YSYKD	312
NTDB id 228 SPD RS09265 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKET	KIKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KTGELL	KI	ASDL	DI	IKK	AGAW	YSYKD	312
NTDB id 194 SPR RS08825 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKET	KIKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KTGELL	KI	ASDL	DI	IKK	AGAW	YSYKD	312
NTDB id 159 SP RS09750 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKET	KIKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KTGELL	KI	ASDL	DI	IKK	AGAW	YSYKD	312
NTDB id 499 SM12261 RS08315 WP 078228268.1	VRLDVRGSTQIKGTG.DQKD	TNVGKET	KIKVVKNKV	APPFKE	AFVE	IMY	GEGIS	KTGELL	KI	ASDL	DI	IKK	AGAW	YSYKD	312
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NTDB id 408 SMU RS09530 WP 002262392.1	VRLDVRGNTQIKGTG.EQK	DSNIGKET	KIKVVKNKV	APPFKE	AFVE	ITY	GEGIS	RTGEL	VKI	ASDL	GI	IKK	AGAW	YSYNG	312
NTDB id 453 Spy49 1753c ACI62003.1	VRLDVRGTTQIKGTG.DQK	DSSIGKET	KIKVVKNKV	APPFK	VAEVE	IMY	GEGIS	RTGEL	VKI	ASDL	DI	IKK	AGAW	FSYNG	312
NTDB id 115 BSU 16940 NP 389576.2	VRLEVRRAEQLKQGN.....	DVMGNK	TKIKVVKNKV	APPFR	TAEVD	IMY	GEGIS	KEGE	IT	DLG	TEL	DIV	QKSG	SWSY	293
NTDB id 625 LCA RS02525 WP 011374196.1	VRLEVRRAETIKNGT.....	DMIGNRA	RIKVVKNKV	APPFK	VAEVD	IMY	GEGIS	RTGEL	VD	MAVEK	DI	INK	SGS	WYSY	295
NTDB id 1245 Cj1673c YP 002345041.1	VRLDVRKVAT....L.KQNE	EPIGNRV	KVKVVKNKV	APPFR	QAEFD	VMF	GEGLS	REGEL	IDY	GVKLD	DIV	DKSG	AWF	SYKD	295
NTDB id 1211 C694 RS00795 WP 000963128.1	VRIDIRRIAS....L.KQNE	EQHIGNRA	KA	KVVKNKV	APPFR	EAEFD	IMF	GEGIS	KEGE	IT	IDY	GVKLD	DIV	DKSG	297
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VRIDIRRIAA....L.KQNE	EQHIGNRA	KA	KVVKNKV	APPFR	EAEFD	IMF	GEGIS	KEGE	IT	IDY	GVKLD	DIV	DKSG	297
NTDB id 1334 RAOC RS04870 WP 004918236.1	VRIDIRRSLSDTGKIKDKS	GEVIGNRT	TKV	KVVKNKV	APPFK	S	AEFD	IMY	GEGV	SKVGE	ILD	VATDL	DI	IKKSG	308
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VRLDIRRCGV....V.KDG	DEIIGSET	KVKVVKNKV	APPFR	REVQF	DIMY	GEGIS	RMNELL	IL	AEANG	FI	KKSG	AWF	SYDG	311
NTDB id 1130 NGFG RS03960 WP 003688695.1	VRLDIRRTGS....I.KKG	EEVLGNET	RVKVI	KNKV	APPFR	QAEFD	DILY	GEGIS	WEGEL	ID	IGVKN	DI	INKSG	AWYSYNG	295
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NTDB id 1123 OK783 RS03845 WP 003688695.1	VRLDIRRTGS....I.KKG	EEVLGNET	RVKVI	KNKV	APPFR	QAEFD	DILY	GEGIS	WEGEL	ID	IGVKN	DI	INKSG	AWYSYNG	295
NTDB id 1427 RS RS02760 WP 011000510.1	VRLDIRRIGS....I.KKG	DEVVGNET	KVKVVKNKV	APPFR	EAEFD	DILY	GAGV	SREGE	IT	DLG	VEAK	VVEK	SGAW	YSYNG	303
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VRLDIRRTGA....I.KEG	EEVVGNET	RIKVVKNK	IA	APFKE	ANTQ	IMY	GGF	NREGEL	ID	LG	VKHK	MVEK	SGAW	294
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VRLDIRRTGA....I.KEG	EEVVGNET	RIKVVKNK	IA	APFKE	ANTQ	IMY	GGF	NREGEL	ID	LG	VKHK	MVEK	SGAW	294
NTDB id 1205 PSJM300 05545 AFN77183.1	VRLDIRRTGA....V.KEG	DEVVGS	ETRVKVVKNKV	APPFR	QAEFQ	ILY	GKGI	YRNGE	IT	DLG	VQQG	LVEK	SGAW	AYKG	294
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VRLDIRRIGQ....V.KEG	DEIVGSET	KVKVVKNK	M	APPFKE	AI	FQILY	GKGT	NQLGEL	VD	LAVQQ	DIV	QKAG	AWYSYQG	294
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VRLDIRRIGQ....V.KEG	DEIVGSET	KVKVVKNK	M	APPFR	EAEFQ	ILY	GKGV	NQLGEL	VD	LAVQQ	NIV	QKAG	AWYSYQG	294
consensus	!!****!	*	**	*****!!!!!!	!!!!!!*	*	*****!****	*****	***	***	! !****!				

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NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 249497 CPI83 RS16145 WP 007735170.1	DQLGGGKENARKFLLENTDIRDEIEKKIKKELGIGADVTATDEAPADF.....	345
NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASKT.KAKAKKEEKAVETEEIELELED.....	387
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NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 115 BSU 16940 NP 389576.2	ERLGGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAEETQEEL..EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI..NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGGRENSKAFLENPEIADEITKAIQNSMGIEGMISGSEDDE..GEE.....	343
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEP..LEEME.....	347
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NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGERPE.....E.....	348
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NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	352
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNENMLIAETSSAADDVEFGAVPE.....EF.....	354
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEDPD..LLES.....	349
consensus	**!!** * * * * * * * * * *	

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		IEE	
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NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388	
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388	
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388	
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 115 BSU 16940 NP 389576.2	...	348	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
consensus			

- X non conserved
- X similar
- X ≥ 50% conserved