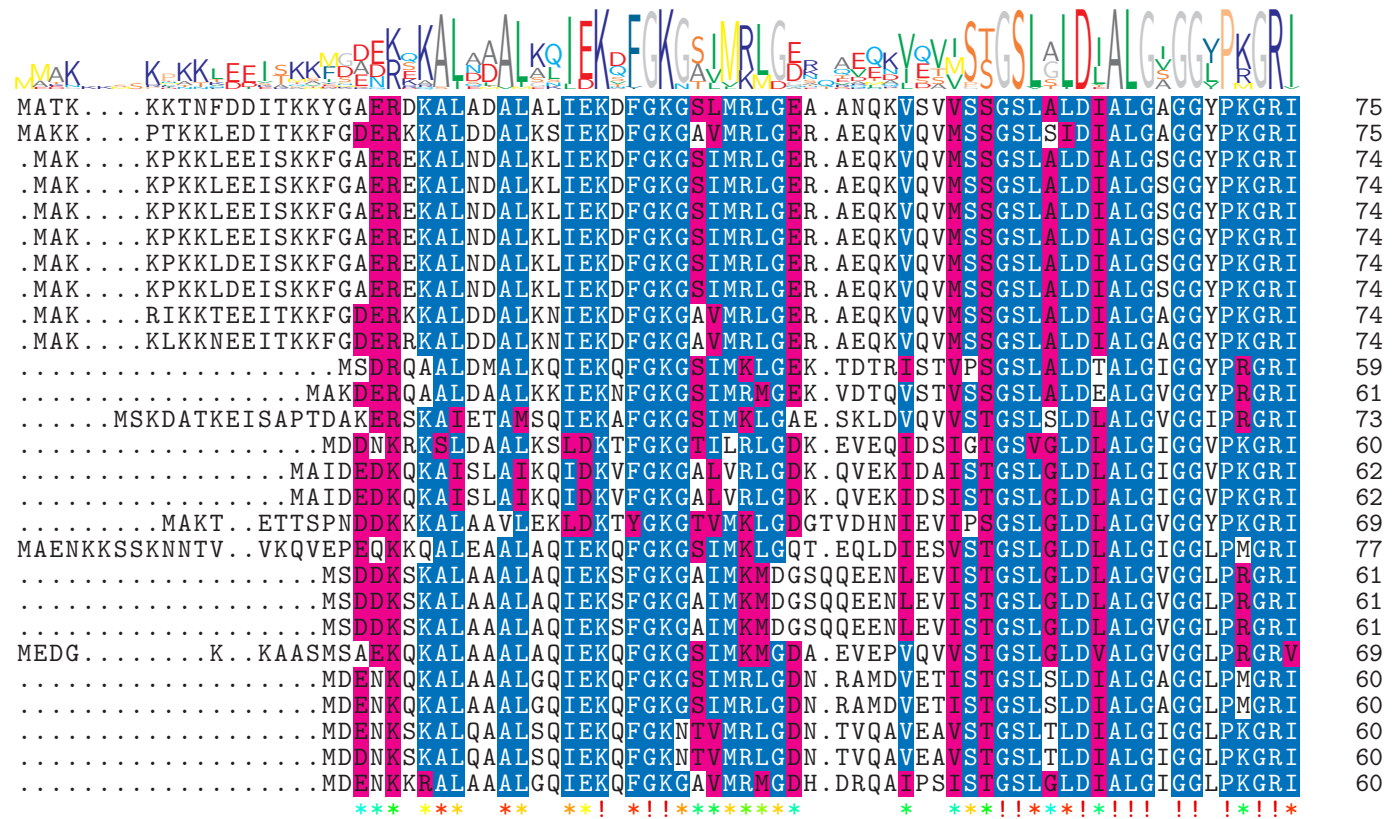


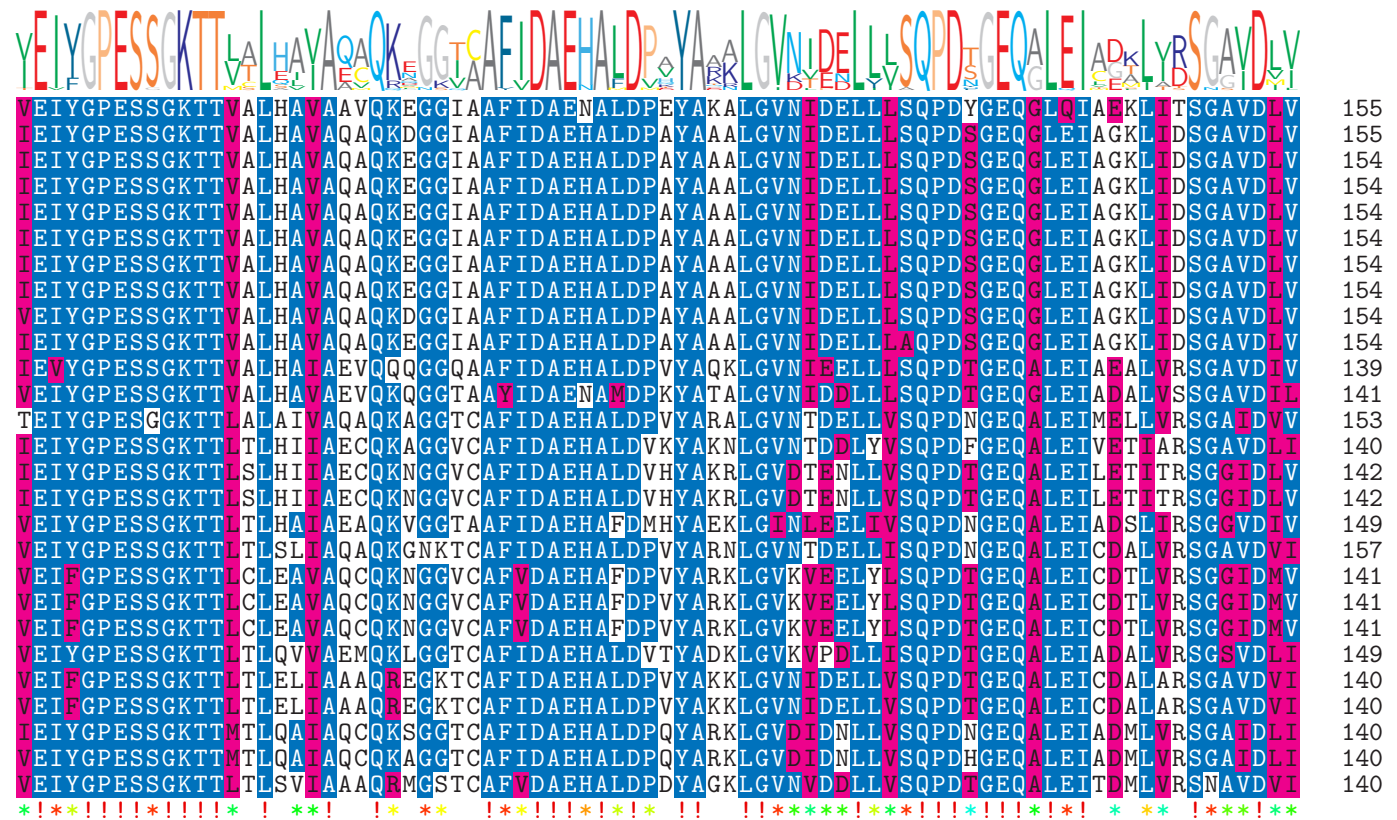
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consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1
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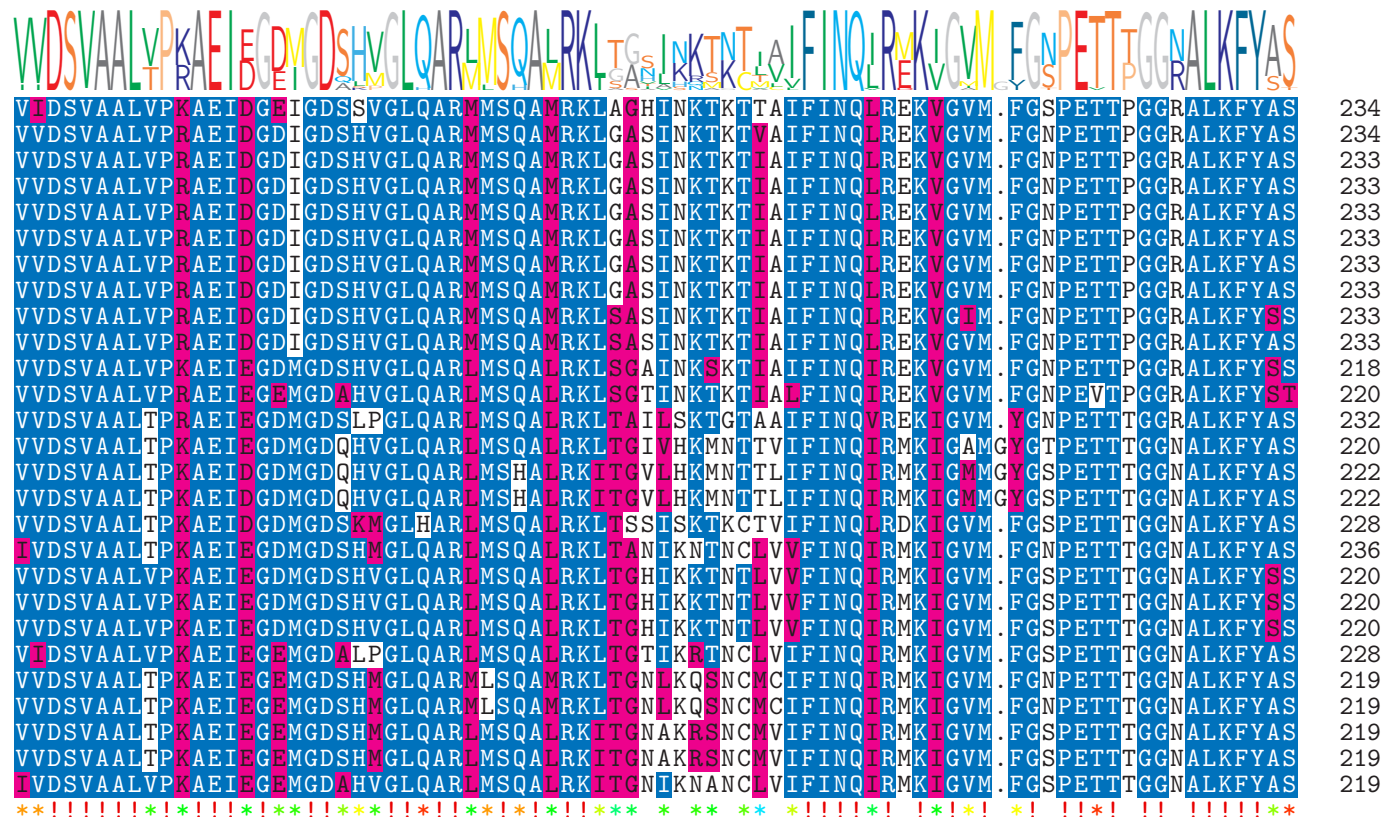
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1

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NTDB id 313503 D2E16 RS00385 WP 192369293.1	VRMDVRG	NTQIKGTG	.DKKDQN	VGKETK	VKIKVN	KNKVAPPF	KEVVV	EIMY	GEGIS	RTGEL	IEIGSN	LGIQK	KAGAW	YSYNG	313				
NTDB id 269 KZH43 RS08665 WP 001085462.1	VRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIASDL	DIKK	KAGAW	YSYKD	312					
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NTDB id 499 SM12261 RS08315 WP 078228268.1	VRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIASDL	DIKK	KAGAW	YSYKD	312					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIASDL	DIKK	KAGAW	YSYKD	312					
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NTDB id 453 Spy49 1753c ACI62003.1	VRLDVRG	TTQIKGTG	.DQKDSS	IGKETK	IKVVKNKVAPPF	KVAEV	EIMY	GEGIS	RTGEL	VKIASDL	DIIQK	KAGAW	FSYNG	312					
NTDB id 115 BSU 16940 NP 389576.2	VRLEVR	RAEQLKQGN		DVMGN	KTKIKV	VKNKVAPPF	RTAEV	DIMY	GEGIS	KEGEI	IDL	LGTEL	DIV	QKSG	SWYSYEE	293			
NTDB id 625 LCA RS02525 WP 011374196.1	VRLEVR	RAETIKNGT		DMIGN	RAIKV	VKNKVAPPF	KVAEV	DIMY	GEGIS	RTGEL	VDMAVE	KDIINK	SG	SWYSYGS	295				
NTDB id 1313 DR RS12030 WP 010888966.1	VRLDVR	KIGQ....	PTKVG	NDAV	ANTV	KIKTV	KNKVA	APFKE	VELA	LIVYG	KGFD	QLSDL	VGLA	ADMDI	IKKAG	SFYSYGD	308		
NTDB id 1245 Cj1673c YP 002345041.1	VRLDVR	KKVAT....	L.KQNE	EP	IGNR	VKV	VKNKVAPPF	RQAEF	DVMF	GEGLS	REGEL	IDYG	VKLDI	VDKSG	AW	FSYKD	295		
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NTDB id 1334 RAOC RS04870 WP 004918236.1	VRIDIR	RRSLSD	TGKIKDKS	GEV	IGNR	TKV	VVKNKVAPPF	KSAEF	DIMY	GEGV	SKVGEI	LDVAT	DLDI	IQKSG	SW	FSYQD	308		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VRLDIR	RCGV....	V.KDG	DEI	IGSE	TKV	VVKNKVAPPF	REVQF	DIMY	GEGIS	RMNELL	ILAE	ANGFI	KKSG	AW	FSYDG	311		
NTDB id 1130 NGFG RS03960 WP 003688695.1	VRLDIR	RTGS....	I.KKG	EEVL	GNET	RVKV	IKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AW	YSYNG	295		
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NTDB id 1123 OK783 RS03845 WP 003688695.1	VRLDIR	RTGS....	I.KKG	EEVL	GNET	RVKV	IKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AW	YSYNG	295		
NTDB id 1427 RS RS02760 WP 011000510.1	VRLDIR	RRIGS....	I.KKG	DEV	VGN	ETKV	VVKNKVAPPF	REAI	FDILY	GAGV	SREGEI	IDL	GV	EAKV	VVEKSG	AW	YSYNG	303	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VRLDIR	RTGA....	I.KEG	EEV	VGN	ETRI	KVVKNK	IAAP	FK	EANTQ	IMYG	GGFN	REGEL	IDL	GVKHK	MVEKSG	AW	YSYNG	294
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VRLDIR	RTGA....	I.KEG	EEV	VGN	ETRI	KVVKNK	IAAP	FK	EANTQ	IMYG	GGFN	REGEL	IDL	GVKHK	MVEKSG	AW	YSYNG	294
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VRLDIR	RRIGQ....	V.KEG	DEI	VGSE	TKV	VVKNKM	MAPPF	KEA	IFQILY	GKGTN	QLGEL	VDL	AVQQ	DIVQ	KAGAW	YSYQG	294	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VRLDIR	RRIGQ....	V.KEG	DEI	IGSE	TKV	VVKNKM	MAPPF	REAI	IFQILY	GKGV	NQLGEL	VDL	AVQQ	NIVQ	KAGAW	YSYQG	294	
NTDB id 1205 PSJM300 05545 AFN77183.1	VRLDIR	RTGA....	V.KEG	DEV	VGSE	TRV	VVKNKVAPPF	RQAEF	QILY	GKGIY	RNGEI	IDL	GV	QQ	LVEKSG	AWY	AYKG	294	
consensus	!!	****	!	*	*	*	*	*****	!!!!!!	!!!!!!	*****		*****	!!	*****	!	*****	!	

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consensus

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EKIGQGSENAKKFLADNPVIFDEIDRKIRIHYGLIADGVEEVVTEEP...V...A...AEEIQDVILDLGGIELED	383
EKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDEPKK...E...EAVNEEVPLDLGDELEIEI	386
EKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDEPKK...E...EAVNEEVPLDLGDELEIEI	386
EKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDEPKK...E...EAVNEEVPLDLGDELEIEI	386
EKIGQGSSENAKKYLAHNPEIFDEIDHQVRVQFGLIDGEEIAES...KKDEAAQ...V...DSVNEEVTLDLGDELEIEI	382
EKIGQGSSENAKKYLAHNPEVFAEIDHQVRVQFGLIDGEEAAES...KKDEVAQ...V...DSVNEEVTLDLGDELEIEI	382
EKIGQGSSENAKKFLADNPVIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK...ET...D...EKADKNLVLELDDTIELED	383
EKIGQGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE...E.....TDDLALDLNNGIEIED	378
ERLGGGRENAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQQAEEETQEELEF.....E.E.....	348
ERIGQGRENAKNYLADHEDVEVRLKVRRAAYGLSDVPEEDLPTTEDE.QINI.....LPDDSTEE..	355
ERIGGQKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA.....EA.....	363
KKLGGGRENASKAFLKENPEIAD EITKAIQNSMGI EGM I.....SGSEDDE..G.....EE.....	343
KKLGGGRENAKALLKEDKALADEITLKIKESIGSN E E I.....MPLPDEP..L.....EEME	347
KKLGGGRENAKALLKEDKALADEITLKIKESIGSN E E I.....MPLPDEP..L.....EEME	347
TKLGGGRDITVKELIKDNPELAEELEAKIREKLQAK.....	343
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AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDET.....GERPEE.....	348
AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDET.....GERPEE.....	348
AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDET.....GERPEE.....	348
ERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMG...AV.TLAEVE...ED...	352
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DKIGGQKANACKYLLKENPEIAKTLDDKKLREMLLNPNEM...QLIAETSSAA...DDVEFGAVPEEF.....	354
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SKIGGQKANAAKYLEENPEIIGQIEEQIRAKLLVTSAN.....TKATPVAEDL.....ADAD...I.....	347

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NTDB id 194 SPR RS08825 WP 001085462.1	EE	388	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	..	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	..	347	
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved