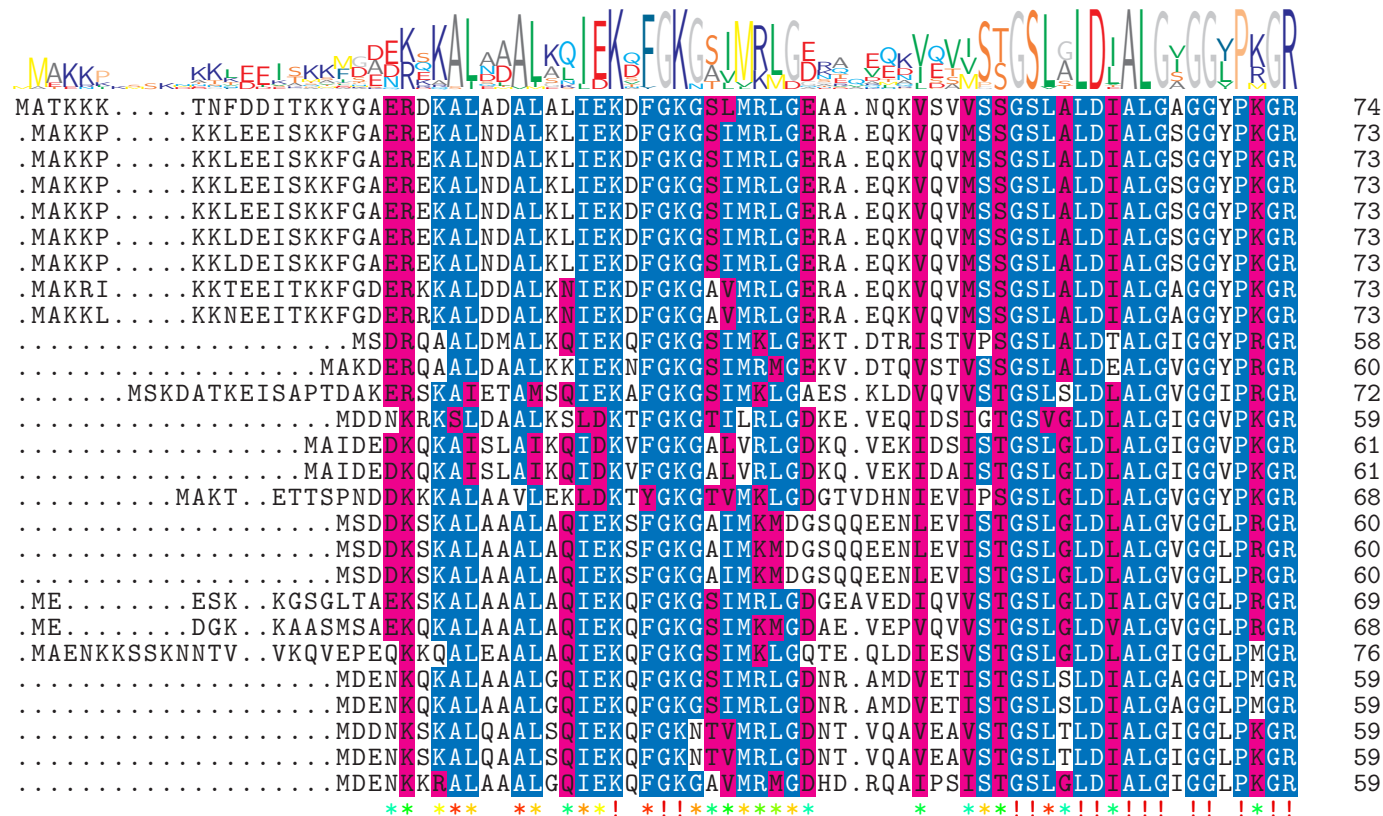


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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

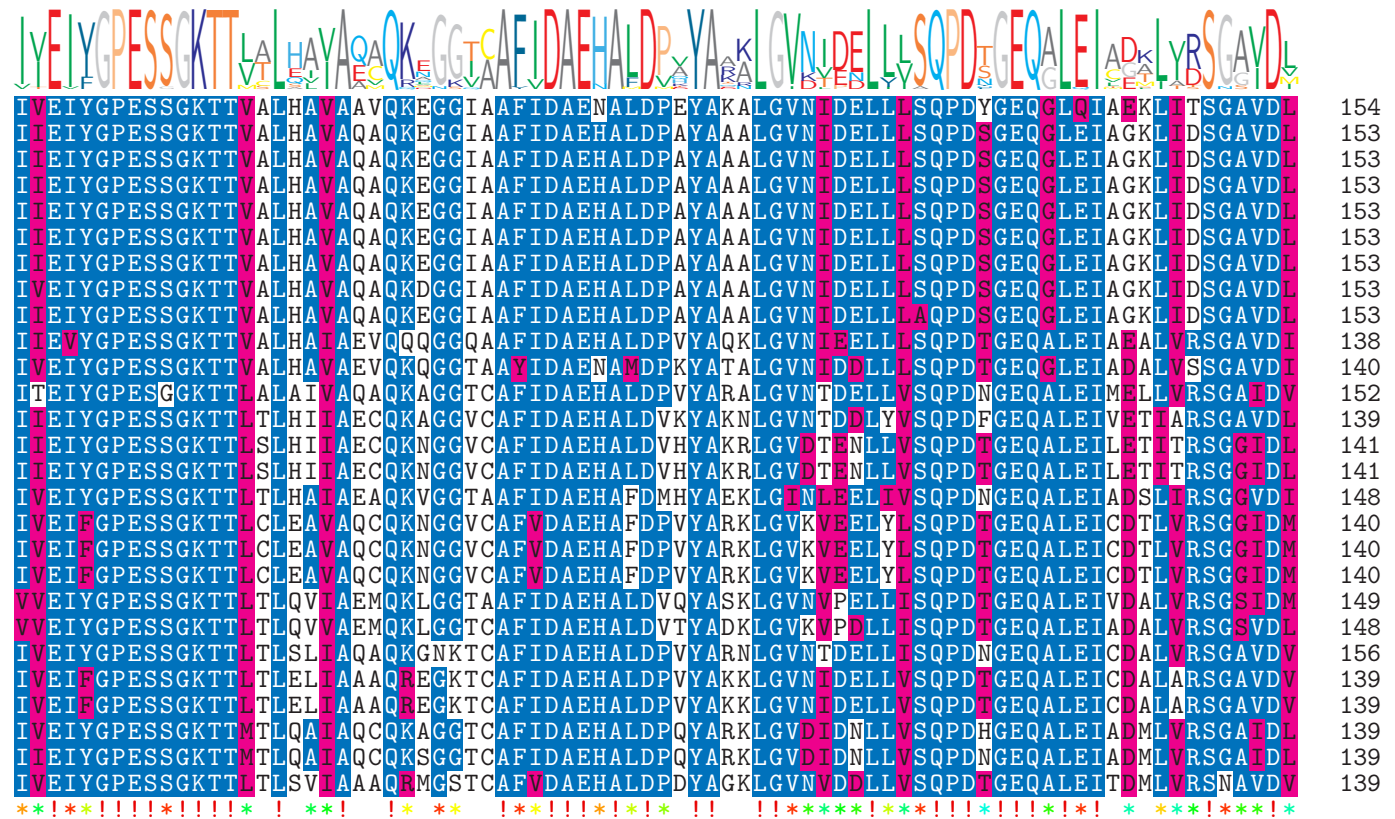
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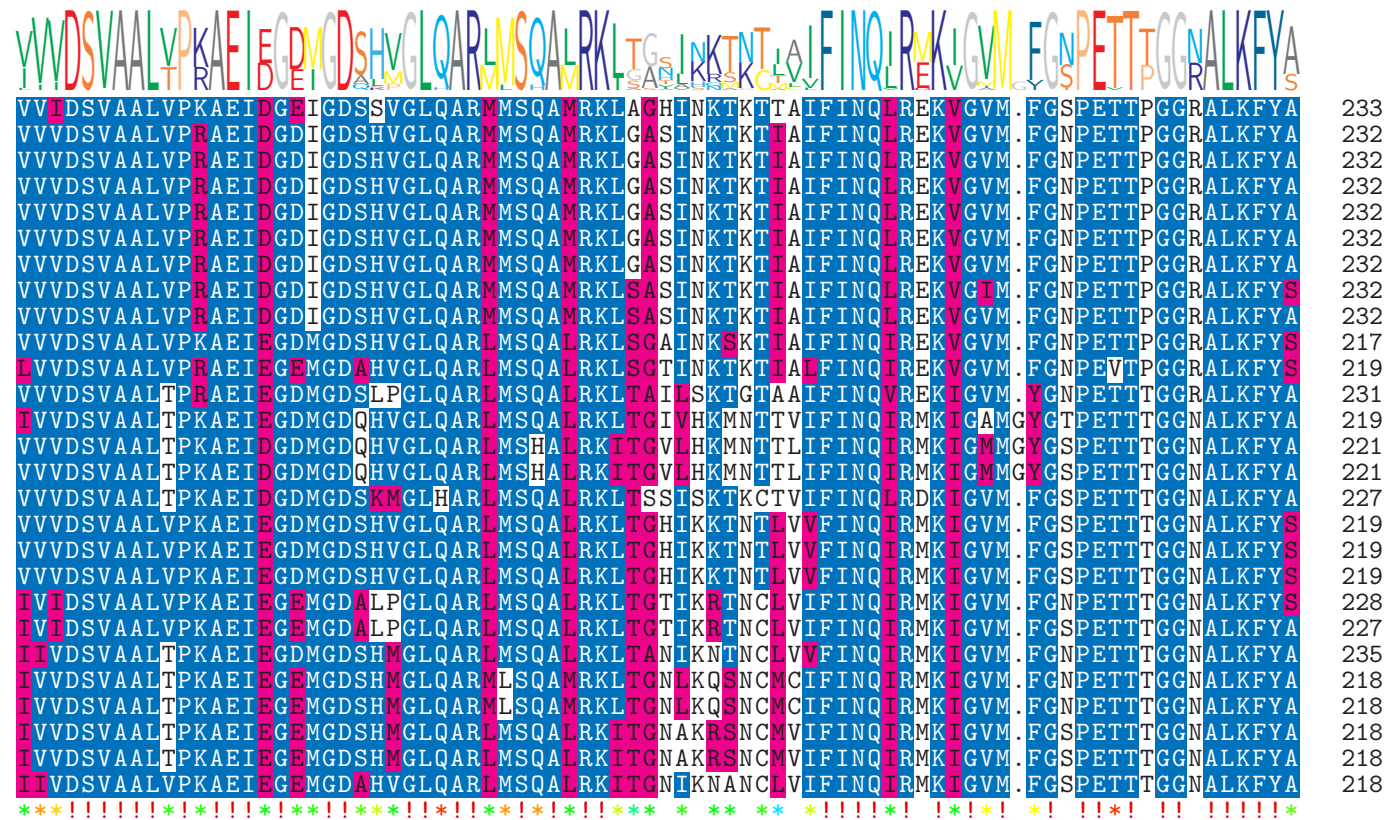
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consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1
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consensus



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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIASD	DIKK	KAGAW	YSYK	311	
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NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIASD	DIKK	KAGAW	YSYK	311	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIASD	DIKK	KAGAW	YSYK	311	
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGIS	RTEGEL	VKIASD	LGIQ	KAGAW	YSYN	311	
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TTQIKGTG	.DQKDSN	IGKETK	IKVVKNKVAPPF	KVAEV	EIMY	GEGIS	RTEGEL	VKIASD	LDIQ	KAGAW	FSYN	311	
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRA	ETIKNGT	DMIGNR	ARIKVVKNKVAPPF	KVAEV	DIMY	GQGIS	RTEGEL	VDMAVE	KDIIN	KS	GSWYSYG	294		
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRK	VAT....L.KQ	NKEEP	IGNRVK	VKVKNKVAPPF	RQAEF	DVMF	GEG	LSREGEL	IDYGV	KLDIV	DK	SGAW	FSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRI	AS....L.KQ	NEQH	IGNRAK	AKVVKNKVAPPF	REAEF	DIMF	GEGIS	KEGE	IIDLGV	KLDIV	DK	SGAW	LSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRI	AA....L.KQ	NEQH	IGNRAK	AKVVKNKVAPPF	REAEF	DIMF	GEGIS	KEGE	IIDLGV	KLDIV	DK	SGAW	LSYQ	296
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NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....I.KK	GEEV	LGNETRV	KVKIKNKNVAPPF	RQAEF	DILY	GEGIS	WE	GELIDIG	VKNDI	IN	KS	GAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRR	TGS....I.KK	GEEV	LGNETRV	KVKIKNKNVAPPF	RQAEF	DILY	GEGIS	WE	GELIDIG	VKNDI	IN	KS	GAWYSYN	294
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NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRR	IGS....I.KK	GDEV	VGNETK	VKVKNKVAPPF	REAI	FDILY	GAGV	SREGE	IIDLGV	EAKV	VVE	EKS	GAWYSYN	302
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRR	CGV....V.KD	GDEI	IGSETK	VKVKNKVAPPF	REVQF	DIMY	GEGIS	RMNELL	ILAEANG	F	IK	KS	GAWFSYD	310
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRR	TGA....I.KE	GEEV	VGNETRI	KVVKNKIAAPF	KEANTQ	IMYG	QGFN	REGEL	IDLGV	VKHKM	V	EKS	GAWYSYN	293
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRR	IGQ....V.KE	GDEI	VGSETK	VKVKNKMAPPF	KEAI	FQILY	GKGT	NQLGEL	VDLAV	QQDIV	Q	KAGAW	YSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRR	TGA....V.KE	GDEV	VGSETRV	VKVKNKVAPPF	RQAEFQ	ILY	GKGI	YRNGE	IIDLGV	VQQGL	V	EKS	GAWAYK	293
consensus	*!!**	*!*!	*	*	*	*****!!*!!*!!*!!*!!*	*	*****!!*!!*!!*	*	*****!!*!!*!!*	*	*****!!*!!*!!*	*	*****!!*!!*!!*	

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA..	VNEEVPLDLGDELEIE	385
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NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA..	VNEEVPLDLGDELEIE	385
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEV	FAEIDHQVRVQFGL	IDGEEAAES...	KKDE	VAQVDS..	VNEEVTLDLGDELEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEDNTEEKQSSKE		ETDEK..	ADKNLVLELDDTIELE	382
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEESAMAVASE		E.....	TDDLALDLDNNGIEIE	377
NTDB id 115 BSU 16940 NP 389576.2	EERLGQG	RENAKQFLKENK	DIMLMIQEQIREHY	GLDNNGVVQQAEET	QEEL	EFEE		348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAKNYLADHED	VEDEVRLKVRVQYGL	ISDVPEEDLPTTE	DE	QI	NILPDDST.....EE	355
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NTDB id 124223 DP63 RS30980 WP 004189458.1	GEKIGQG	KDNAREFLRENPEI	AREIENRIRRESLG	VAAAMPQ.....	GAGSEA	EIM..DEE	E.....	356
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENAEL	AREIENKVRHLGV	TPMGA.....	VT..LA	EEV..EED		352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPEI	ADKLEQEIENRNL	ASNPNSV.....	LKATAS	DSN..DES	DVEEFSEEEL.....	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLVKENPEI	AKTLDKKLREMLLN	PENMQ.....	LIAETSSAA	..DD	VEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLVKENPEI	AKTLDKKLREMLLN	PENMQ.....	LIAETSSAA	..DD	VEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYFEENNQI	AEIERNIREQLLT	TKASDQ.....	TAA	HD	ETE..EEPDLL..ES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENNQI	AEIERNIREQLLT	TTGTNG.....	AVQ	..I	EDE..EEPDLL..LES	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLENPEI	IGQIEIQQIRAKLL	VTSANT.....	KATPVA	EDL..AD	ADI.....	347
consensus	***!!!	*****	**	*****	*****	**	**	

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
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
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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 1245 Cj1673c YP 002345041.1	...	343
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consensus

 non conserved
 similar
 ≥ 50% conserved