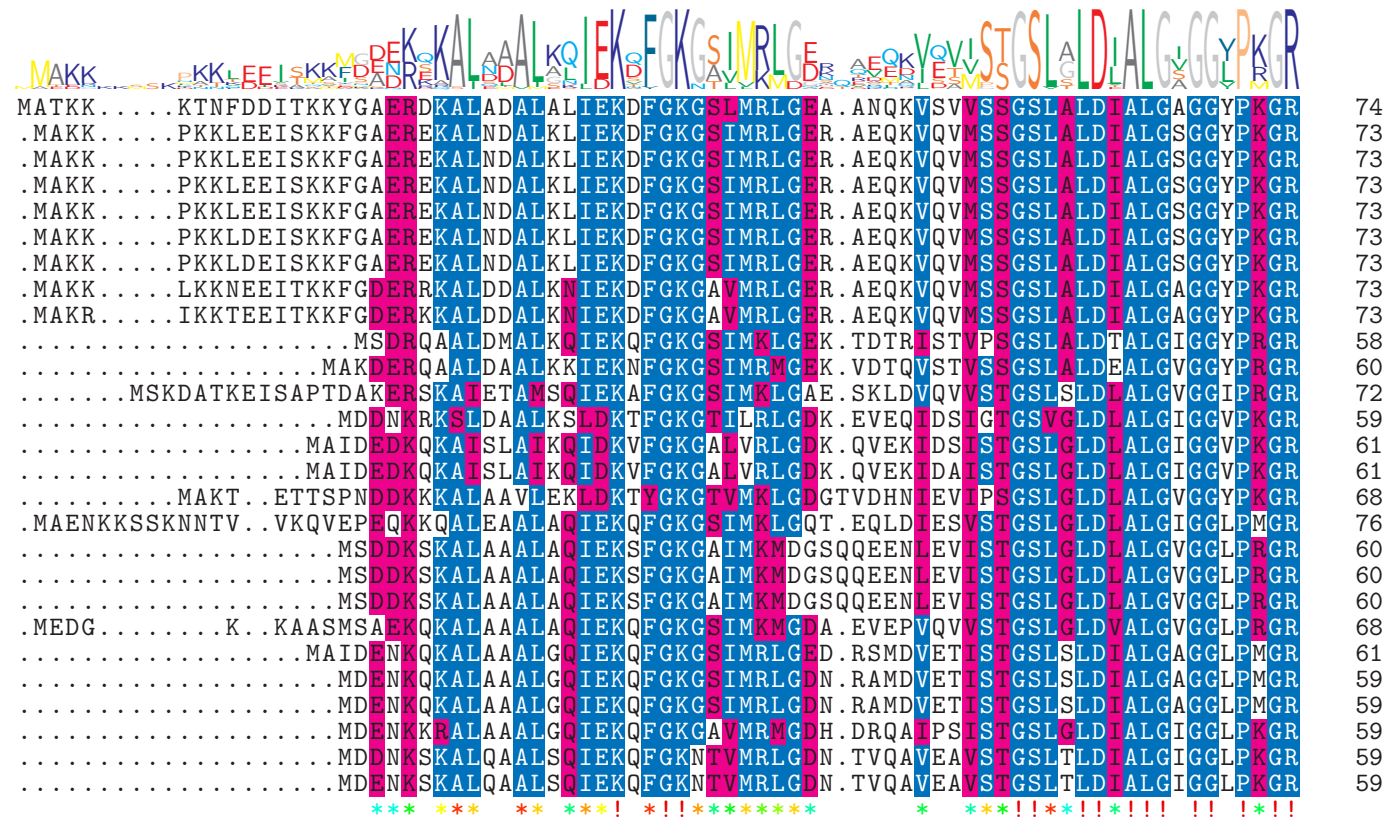


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consensus

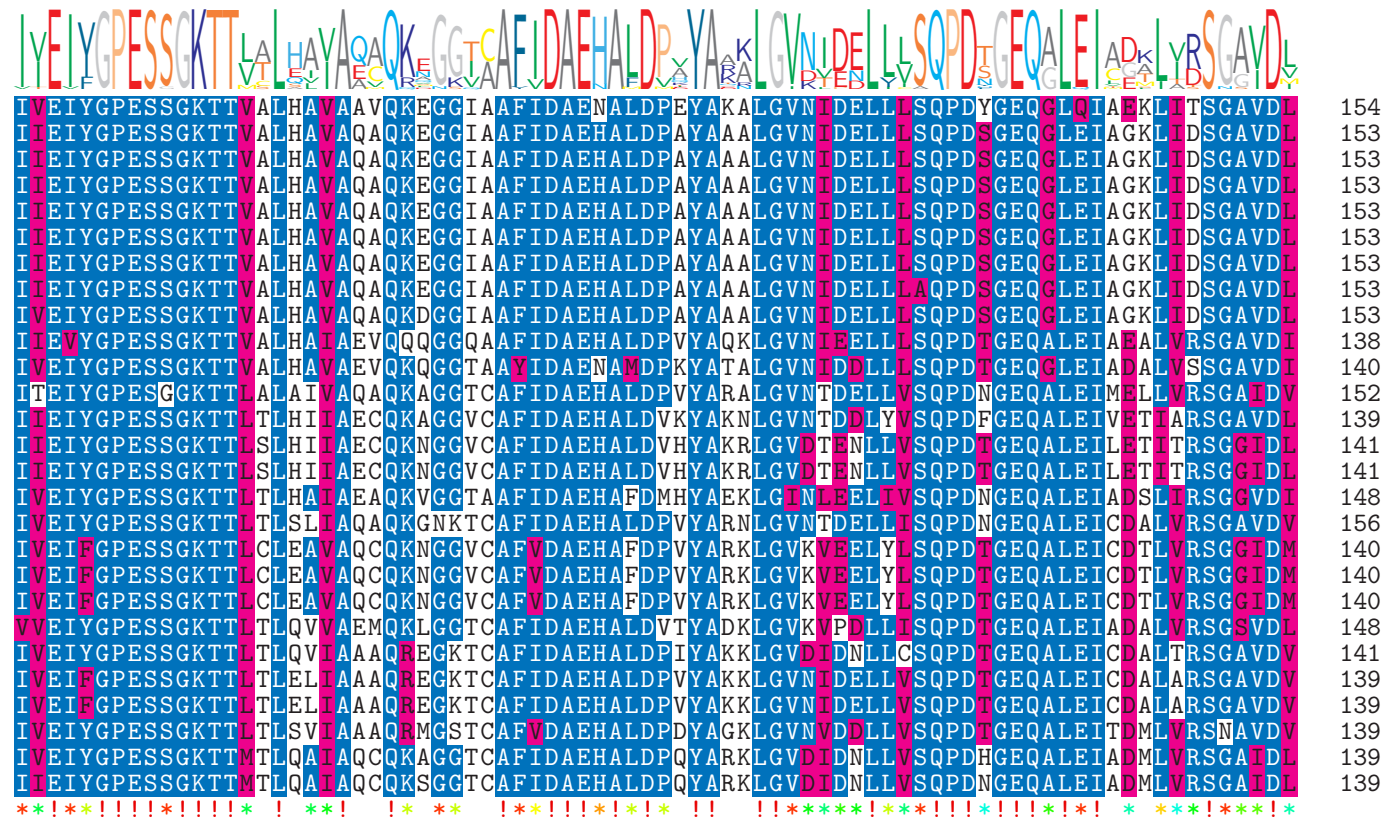
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NTDB id 1205 PSJM300 05545 AFN77183.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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NTDB	id	600	KW2	RS01765	WP	011675413.1	VV	IDSVAALV	PKAEI	DGEI	GDSSVGLQAR	MSQAMRKL	AGH	INKTKT	TA	IFINQLREK	VGVM	.FGSP	PETTP	GGRA	LKFYA	233			
NTDB	id	269	KZH43	RS08665	WP	001085462.1	VVV	DSVAALV	PRAEI	DGDI	GDShVGLQAR	MSQAMRKL	AGAS	INKTKT	TA	IFINQLREK	VGVM	.FGNP	PETTP	GGRA	LKFYA	232			
NTDB	id	228	SPD	RS09265	WP	001085462.1	VVV	DSVAALV	PRAEI	DGDI	GDShVGLQAR	MSQAMRKL	AGAS	INKTKT	TA	IFINQLREK	VGVM	.FGNP	PETTP	GGRA	LKFYA	232			
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NTDB	id	159	SP	RS09750	WP	001085462.1	VVV	DSVAALV	PRAEI	DGDI	GDShVGLQAR	MSQAMRKL	AGAS	INKTKT	TA	IFINQLREK	VGVM	.FGNP	PETTP	GGRA	LKFYA	232			
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	VVV	DSVAALV	PRAEI	DGDI	GDShVGLQAR	MSQAMRKL	AGAS	INKTKT	TA	IFINQLREK	VGVM	.FGNP	PETTP	GGRA	LKFYA	232			
NTDB	id	499	SM12261	RS08315	WP	078228268.1	VVV	DSVAALV	PRAEI	DGDI	GDShVGLQAR	MSQAMRKL	AGAS	INKTKT	TA	IFINQLREK	VGVM	.FGNP	PETTP	GGRA	LKFYA	232			
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NTDB	id	1313	DR	RS12030	WP	010888966.1	VVV	DSVAAL	TPRAEI	EGDM	GD	SLPGLQAR	LSQALRKL	TA	ILSKTGT	AA	IFINQVREK	IGVM	.YGN	PETTT	GGRA	LKFYA	231		
NTDB	id	1245	Cj1673c	YP	002345041.1	IV	VDSVAAL	TPKAEI	EGDM	MGDQ	HVGLQAR	LSQALRKL	TGIV	HKMNTT	V	IFINQIR	MKIGAM	GYGT	PETTT	TGGN	ALKFYA	219			
NTDB	id	1211	C694	RS00795	WP	000963128.1	VVV	DSVAAL	TPKAEI	DGDM	MGDQ	HVGLQAR	LSH	ALRKIT	GV	LHKMNT	TL	IFINQIR	MKIGM	MGY	GP	PETTT	TGGN	ALKFYA	221
NTDB	id	1214	NCTC11637	00359	SQJ03206.1	VVV	DSVAAL	TPKAEI	DGDM	MGDQ	HVGLQAR	LSH	ALRKIT	GV	LHKMNT	TL	IFINQIR	MKIGM	MGY	GP	PETTT	TGGN	ALKFYA	221	
NTDB	id	1334	RAOC	RS04870	WP	004918236.1	VVV	DSVAAL	TPKAEI	DGDM	GD	SMGLHAR	LSQALRKL	TSS	ISKTKCTV		IFINQLRDK	IGVM	.FGSP	PETTT	TGGN	ALKFYA	227		
NTDB	id	1389	A4U84	RS07560	WP	021112712.1	II	VDSVAAL	TPKAEI	EGDM	GD	SHMGLQAR	LSQALRKL	TAN	IKNTNC	LV	VFINQIR	MKIGVM	.FGNP	PETTT	TGGN	ALKFYA	235		
NTDB	id	1130	NGFG	RS03960	WP	003688695.1	VVV	DSVAALV	PKAEI	EGDM	GD	SHVGLQAR	LSQALRKL	TGH	IKTNTL	V	VFINQIR	MKIGVM	.FGSP	PETTT	TGGN	ALKFYS	219		
NTDB	id	1124	NGFG	RS03960	WP	003688695.1	VVV	DSVAALV	PKAEI	EGDM	GD	SHVGLQAR	LSQALRKL	TGH	IKTNTL	V	VFINQIR	MKIGVM	.FGSP	PETTT	TGGN	ALKFYS	219		
NTDB	id	1123	OK783	RS03845	WP	003688695.1	VVV	DSVAALV	PKAEI	EGDM	GD	SHVGLQAR	LSQALRKL	TGH	IKTNTL	V	VFINQIR	MKIGVM	.FGSP	PETTT	TGGN	ALKFYS	219		
NTDB	id	1427	RS	RS02760	WP	011000510.1	IV	IDSVAALV	PKAEI	EGEM	GD	ALPGLQAR	LSQALRKL	TG	IKRTNCL	V	IFINQIR	MKIGVM	.FGSP	PETTT	TGGN	ALKFYA	227		
NT																									

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	IKKSGAWFAYN	312				
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NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDL	DIIKKAGAWYSYK	311			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDL	DIIKKAGAWYSYK	311			
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIV	DKSGAWFSYK	294			
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NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFDIMYEGEGVSKVGEILD	VATDLDIIQKSGSWFSYQ	307			
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NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294			
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294			
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NTDB id 324927 EGX46 RS18030 WP 002209446.1	SVRLDIRRIGA....V.KGD	DVVVGSETRVKVVKNKIAAPFKQAEFQ	ILYGE	GININGELVDLGVKHK	LIEKAGAWYSYN	295	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNR	REGELIDLGVKHK	MVEKSGAWYSYN	293	
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIVGSETKVVKNKMAPPFK	EA	IFQILYGKGT	NQLGELVDLAV	QQDIVQKAGAWYSYQ	293
consensus	*!!**!* *	* ** *****!*****!*****!*	*	*****!***** ***** *	***** ! !*****!		

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NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAE....	SKKDE....AAQVDS..VNEEVTLDLGDELEI	380		
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE.....	E.....TDDLALDLNGIEI	376		
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKSSKEK.....	ETDEK..ADKNLVLELDDTIEL	381		
NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAKQFLKENKDIMLMI	QEQIREHYGL	DNNGVVQQAEETQEEL..	EFE.E.....	348		
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPPEEDLPTTEDE.QI..	NILPDDST....EE.....	355		
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAIYIAERP	MEQEIRDRVMAAIR	AGNAGEAPALAPAPAAPEAAEA.....		363		
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPEIA	DKLEQEIRNTL	ASNPNSVLKATASDSNDES	DVEEFSE.....EEL.....	372		
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NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNG	VEMHITEGTQ.....	DETDGERPE.....E.....	348		
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNG	VEMHITEGTQ.....	DETDGERPE.....E.....	348		
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENAEL	AREIENKVR	REHLGVTPMGAVTLAEEVEED.....		352		
NTDB id 324927 EGX46 RS18030 WP 002209446.1	GDKIGQG	KANASNYLKENPAIA	AELDKKLREML	LLNGNGEQPVAAATAEFADG	ADETNE.....EF.....	356		
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENN	QIAEEIERNIREQL	LTGTNGAVQ.I.EDE..	EEDLLE.....S.....	349		
consensus	***!!!	*****	**	*****	*****	**	*	*

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NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388			
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NTDB id 1074 ABD1 RS10195 WP 000344167.1		349			
consensus					

-  non conserved
-  similar
-  ≥ 50% conserved