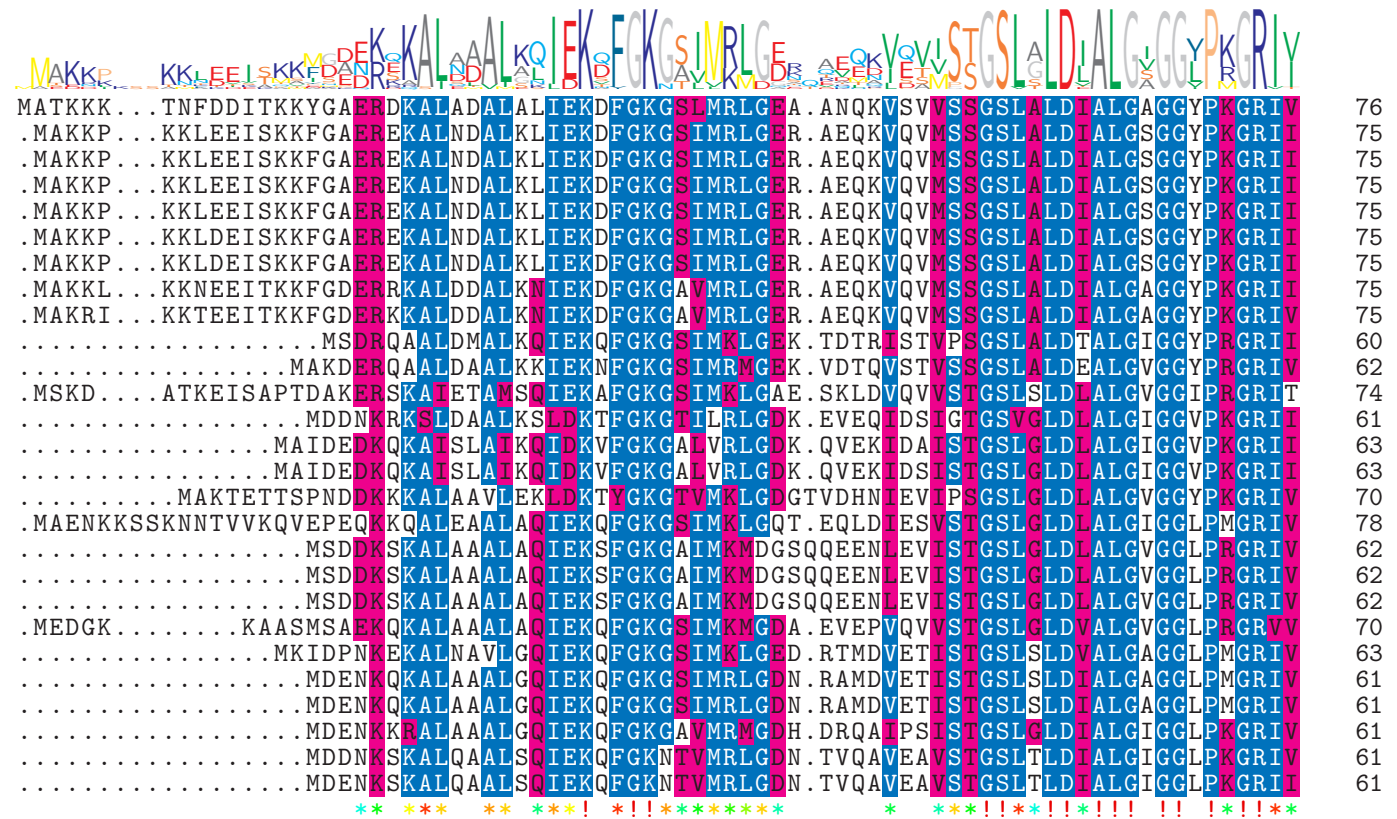


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NTDB id 1142 GTF74 RS11550 WP 000344154.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

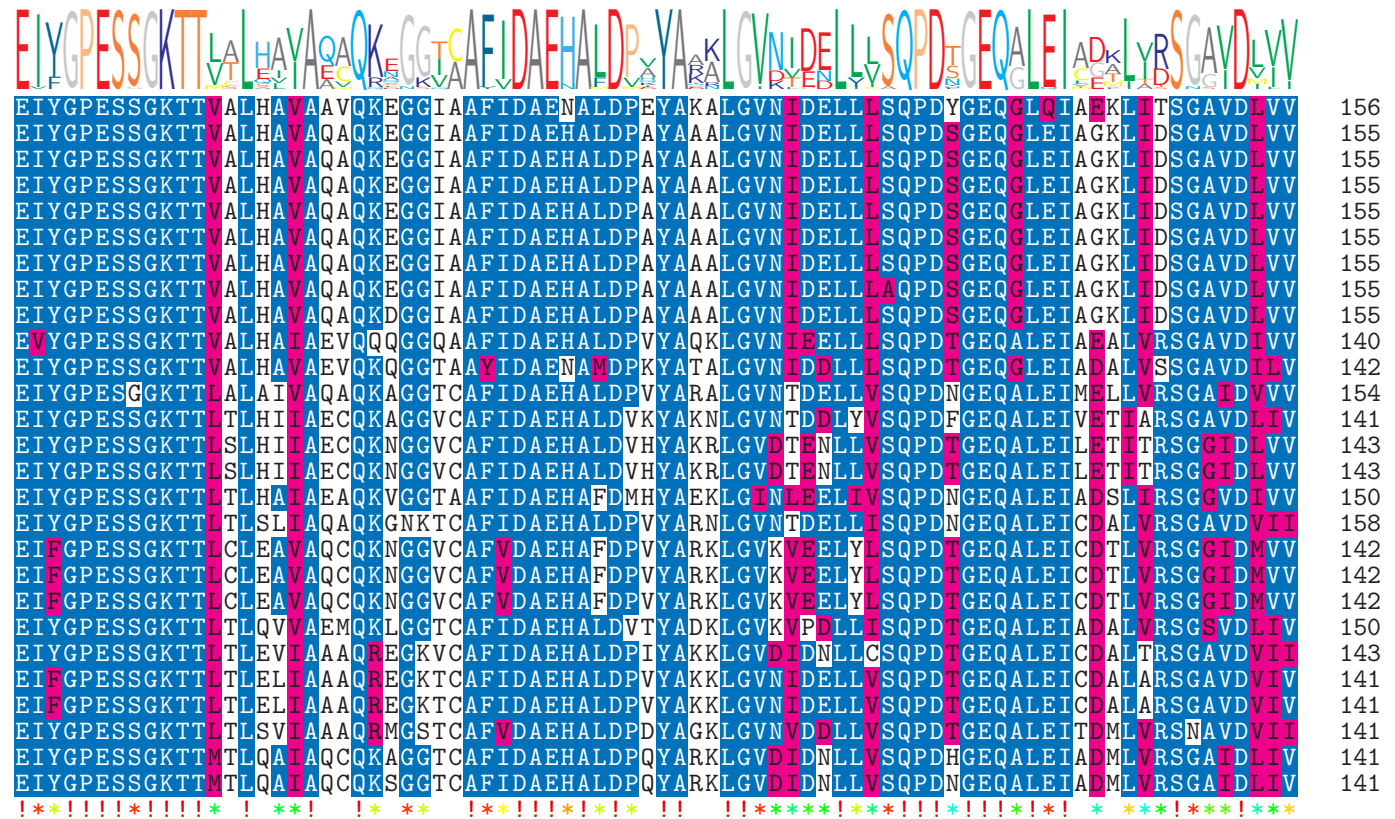
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRG	STKIEEGS	.GDNKTQ	IGKI	TKIKVV	VKNKVAPP	PFKEA	LV	DIM	F	GEGIS	STGEL	IN	IAVEE	GI	TKK	SGAW	FAY	NDE	314					
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NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKE	TKIKVV	VKNKVAPP	PFKEA	VVE	I	IMY	GEGIS	KTGEL	LK	IASD	LD	I	TKK	AGAW	YSY	KDE	313				
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKE	TKIKVV	VKNKVAPP	PFKEA	VVE	I	IMY	GEGIS	KTGEL	LK	IASD	LD	I	TKK	AGAW	YSY	KDE	313				
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKE	TKIKVV	VKNKVAPP	PFKEA	VVE	I	IMY	GEGIS	KTGEL	LK	IASD	LD	I	TKK	AGAW	YSY	KDE	313				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRG	STQIKGTG	.DQKDTN	VGKE	TKIKVV	VKNKVAPP	PFKEA	FVE	I	IMY	GEGIS	KTGEL	LK	IASD	LD	I	TKK	AGAW	YSY	KDE	313				
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRG	STQIKGTG	.DQKDTN	VGKE	TKIKVV	VKNKVAPP	PFKEA	FVE	I	IMY	GEGIS	KTGEL	LK	IASD	LD	I	TKK	AGAW	YSY	KDE	313				
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NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRG	NTQIKGTG	.EQKDSN	IGKE	TKIKVV	VKNKVAPP	PFKEA	FVE	I	I	Y	GEGIS	R	TGEL	V	K	I	A	S	D	L	I	313		
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NTDB id 1313 DR RS12030 WP 010888966.1	RLDVR	KIG....	QPTKVG	NDA	V	ANTV	KIK	IKT	V	K	N	K	V	A	A	P	FKE	V	E	L	A	L	309		
NTDB id 1245 Cj1673c YP 002345041.1	RLDVR	KVA....	TL.KQN	E	E	P	I	GNR	V	KVV	VKNKVAPP	FR	QAE	F	D	V	M	F	G	E	G	L	296		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIR	RIA....	AL.KQN	E	Q	H	I	GNR	A	K	VVV	VKNKVAPP	FR	QAE	F	D	I	M	F	G	E	G	I	298	
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NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIR	RSLS	DTGKIK	DKS	GEV	I	GNR	T	K	VVV	VKNKVAPP	PFKEA	F	D	I	M	Y	G	E	G	V	S	K	309	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIR	RCG....	VV.KDG	DEI	I	G	S	E	T	K	VVV	VKNKVAPP	FR	QAE	F	D	I	M	Y	G	E	G	I	312	
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIR	RTG....	SI.KKG	E	E	V	L	G	N	E	T	R	V	KV	I	K	N	K	V	A	P	F	R	296	
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NTDB id 403640 GMX02 RS07330 WP 025011663.1	RLDIR	RTG....	AI.KEG	D	E	V	G	N	E	T	R	V	KVV	KN	I	A	A	P	F	K	Q	A	D	F	297
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIR	RTG....	AI.KEG	E	E	V	G	N	E	T	R	I	KVV	KN	I	A	A	P	F	K	E	A	N	T	295
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIR	RIG....	QV.KEG	DEI	I	G	S	E	T	K	VVV	VKN	M	A	P	P	F	R	E	A	I	F	Q	295	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIR	RIG....	QV.KEG	DEI	I	G	S	E	T	K	VVV	VKN	M	A	P	P	F	K	E	A	I	F	Q	295	
consensus	!	***	!	*			*		*	*	***	!	* *	***	!	* *	***	!	* *	***	!	*			

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA..VNEEVPLDLGDELEIEIE	387
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NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQFL	KENKDI	MLMIQEQIREHYG	LNNGVVQQAEETQEEL	EFE.E.....		348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGR	ENAKNYLA	DHEDVE	DEVRLKVRAAYG	ISDVPEEDLPTTEDE	QI.NILPDDST	EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGK	EKTIAIYA	IERPEMEQE	IRDRVMAAIRAGNAGEAPALAPAPAAP	EAAAA			363
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGR	ENSKAFL	KENPEI	ADEITKAIQNSMG	TEGM....ISGSED	DEGEE		343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGGR	ENAKALLK	EDKALADEITLK	IKESIGSNEE	IMPLPD	EPLEEME		347
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NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGR	DTVKELIK	DNPELA	EELAEAKIREKLQAK				343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGN	NAVKWL	KENPEI	ADKLEQEIRNTLASNP	N....SVLKATAS	DSNDES	DVEEF...SEE..EL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGN	KDNVRVWL	KENPEIS	DEIDAKIRALNGVEMH	ITEGT	QDET	D...GERPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGN	KDNVRVWL	KENPEIS	DEIDAKIRALNGVEMH	ITEGT	QDET	D...GERPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGN	KDNVRVWL	KENPEIS	DEIDAKIRALNGVEMH	ITEGT	QDET	D...GERPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGR	DNCREFLRENA	EELAREIENKVR	EHLGVTPM	GAVTL	AEVEED		352
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGN	ANACKYLL	KENPEIAKTLD	KKLREMLLNPN	MQ.LIA	ETSSA	ADDVEF...GAVPEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGN	ANAAYLEEN	PEIGQIEEQ	IRAKLLV	TSAS....NTKATP	VAEDLAD	ADI	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGN	NNVIRYLEEN	PQISTEIE	AVIREQLLT	TKAS....DQTAA	HDTEEEP	DLLES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGN	NNVIRYFEENN	QIAEEIERN	IREQLLT	TGT....NGAVQ	I.EDEEEP	DLLE	349
consensus	**!!!	*****	**	*****	*****	**	*	

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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
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NTDB id 453 Spy49 1753c ACI62003.1	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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NTDB id 1211 C694 RS00795 WP 000963128.1	.	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.	343
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NTDB id 1130 NGFG RS03960 WP 003688695.1	.	348
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NTDB id 1123 OK783 RS03845 WP 003688695.1	.	348
NTDB id 1427 RS RS02760 WP 011000510.1	.	352
NTDB id 403640 GMX02 RS07330 WP 025011663.1	.	354
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.	354
NTDB id 1205 PSJM300 05545 AFN77183.1	.	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.	349

consensus

 non conserved
 similar
 ≥ 50% conserved