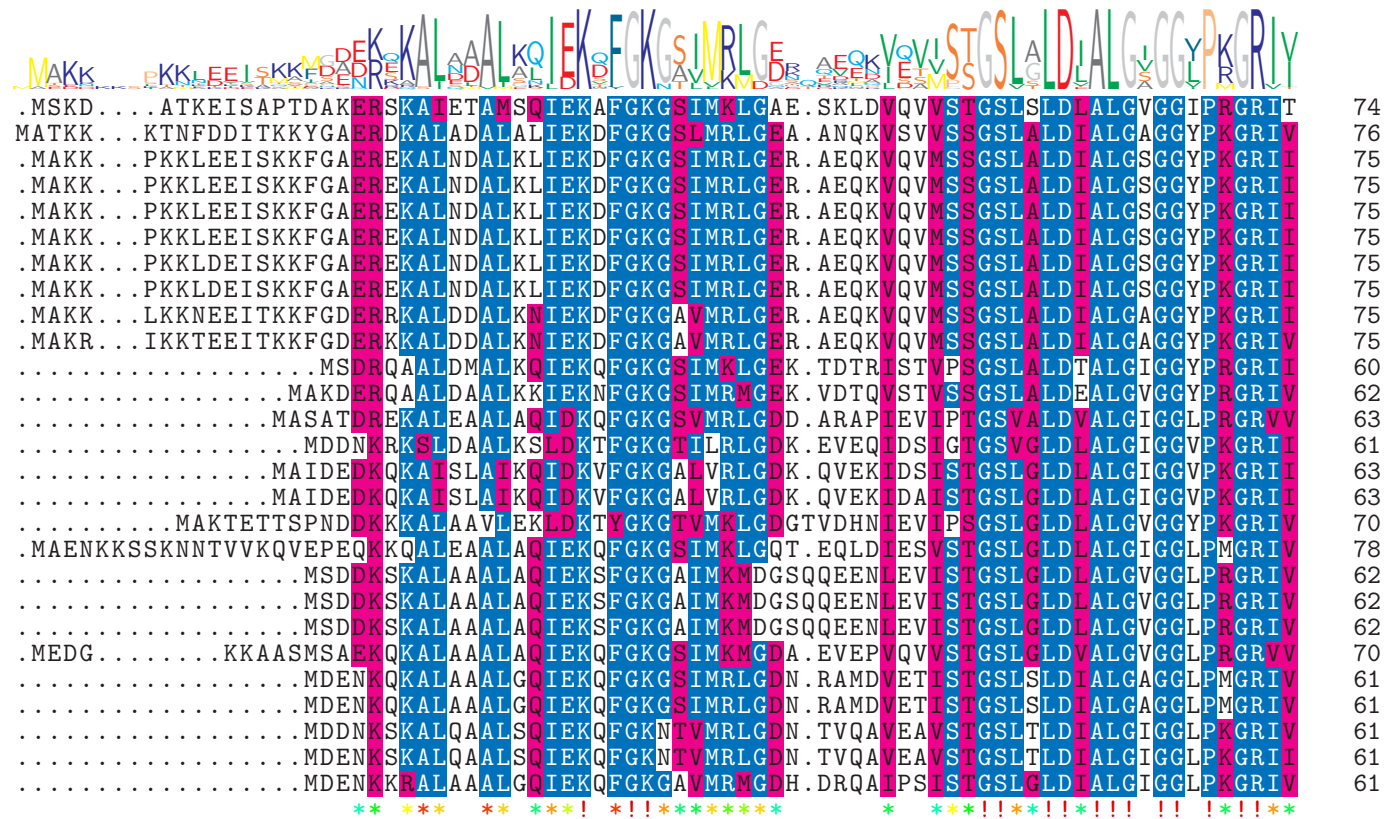


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NTDB id 194 SPR RS08825 WP 001085462.1
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NTDB id 625 LCA RS02525 WP 011374196.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

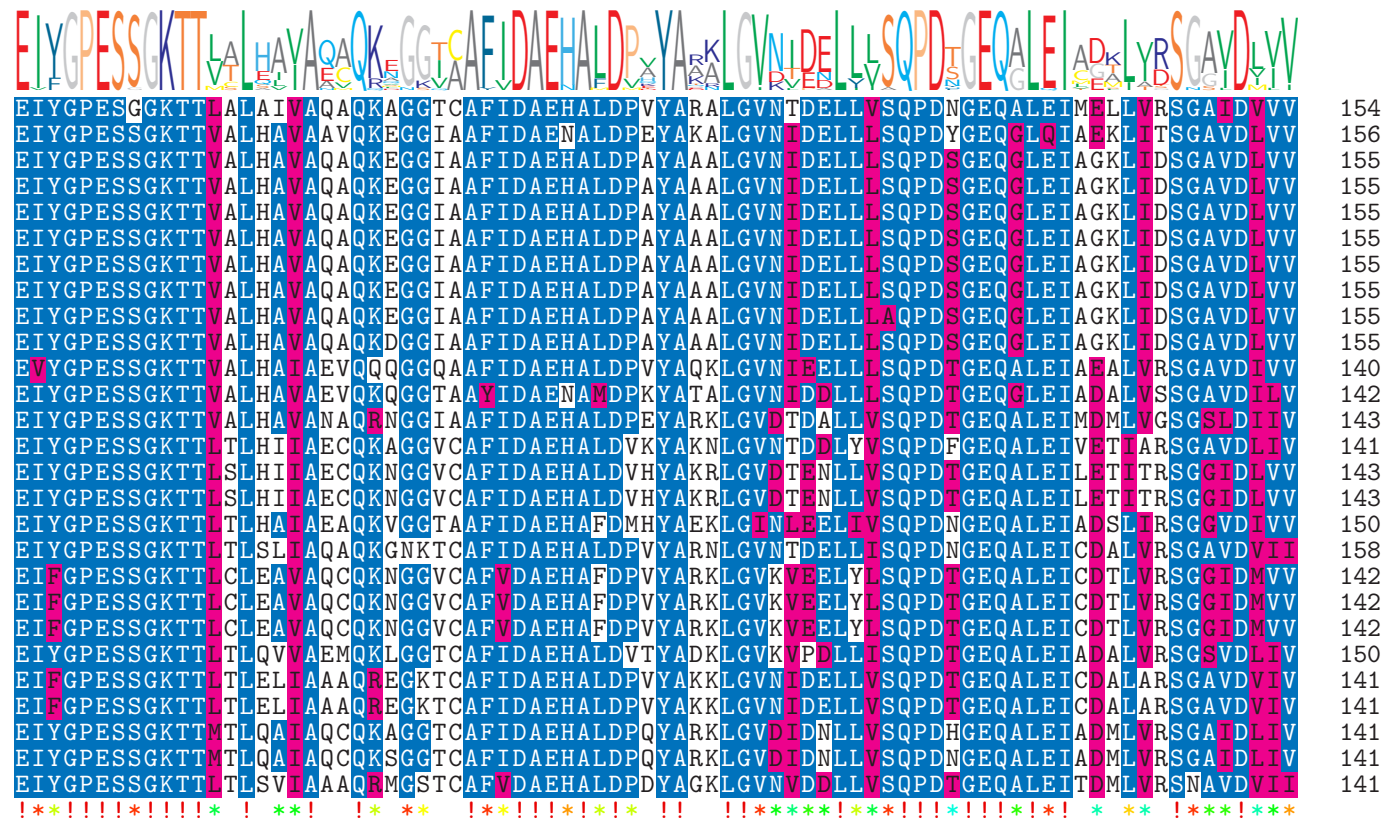
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NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASDL	DI	IKKAG	AWYSY	KDE	313	
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASDL	DI	IKKAG	AWYSY	KDE	313	
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASDL	DI	IKKAG	AWYSY	KDE	313	
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	IMY	GEGIS	KT	GELLK	IASDL	DI	IKKAG	AWYSY	KDE	313	
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVE	IMY	GEGIS	KT	GELLK	IASDL	DI	IKKAG	AWYSY	KDE	313	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVE	IMY	GEGIS	KT	GELLK	IASDL	DI	IKKAG	AWYSY	KDE	313	
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRGTTQIKGTG.DQKDSN	IGKETK	IKVVKNKV	APPFKE	AEVE	IMY	GEGIS	RT	GELVK	IASDL	DI	IKKAG	AWFSY	NGE	313	
NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRGNTQIKGTG.EQKDSN	IGKETK	IKVVKNKV	APPFKE	AFVE	IIY	GEGIS	RT	GELVK	IASDL	GI	IKKAG	AWFSY	NGE	313	
NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN.....	DVMGN	KTKI	IKVVKNKV	APPFRT	AEVD	IMY	GEGIS	KEGEI	IDL	GT	ELDIV	QKSGS	WYSY	EEE	294
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NTDB id 358465 E7744 RS10285 WP 137774030.1	RVDVRRRIET....L.KEAGNA	VGNRT	RAKIV	KNKM	APPFKE	AEFD	IIY	GEGIS	RQ	GGLID	MGVEE	GIV	KKSG	AWFTY	DGD	297
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT....L.KQNEEP	IGNRV	VVVKNKV	APPFKE	AEFD	VMF	GEG	LSRE	GELIDY	GVKLD	DIV	DKSG	AWFSY	KDK	296	
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRA	KA	VVKNKV	APPFKE	AEFD	IMF	GEGIS	KEGEI	IDY	GVKLD	DIV	DKSG	AWLSY	QDK	298
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRA	KA	VVKNKV	APPFKE	AEFD	IMF	GEGIS	KEGEI	IDY	GVKLD	DIV	DKSG	AWLSY	QDK	298
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRLSDTGKIKDKSGEV	IGNRT	KV	VVKNKV	APPFKE	SAEFD	IMY	GEGV	SKVGEI	LDVAT	DLDI	IQKSG	SWSY	QDT	309	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGEI	IGSE	TKV	VVKNKV	APPFKE	REVQFD	IMY	GEGIS	RMNELL	ILAE	ANGFI	IKKSG	AWFSY	DGT	312	
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGS....I.KKGEV	LGNET	RVKVI	KNKV	APPFKE	AEFD	DILY	GEGIS	WEGELI	DIGV	KNDI	INKSG	AWYSY	NGA	296	
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGS....I.KKGEV	GNETK	VVVKNKV	APPFKE	AEI	FD	DILY	GAGV	SREGEI	IDL	GV	EAKV	VEKSG	AWYSY	NGE	304
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGEV	VGNET	RIK	VVKNKI	AAPFKE	ANTQ	IMY	GQGF	NREGELI	DLGV	VKHKM	VEKSG	AWYSY	NGD	295	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGEV	VGNET	RIK	VVKNKI	AAPFKE	ANTQ	IMY	GQGF	NREGELI	DLGV	VKHKM	VEKSG	AWYSY	NGD	295	
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEGDEI	IGSE	TKV	VVKNKM	MAPPFKE	AEI	FQ	ILY	GKGV	NQLGELV	DLAV	QQNIV	QKAG	AWYSY	QGN	295
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGDEV	VGS	ETRV	VVKNKV	APPFKE	AEFQ	ILY	GKGIY	RNGE	IIDL	GV	QQGL	LVEKSG	AWYAY	KGS	295
consensus	!***!*	*	**	*****!***!!*!!*!!*	*	*****!*	*****	*****	***	***	!	!*****!				

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NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.383	
NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQFLKENK	DIMLMIQEIREHYGLDNNGVVQQQAETQEEL.EFE.E.....348	
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGR	KNNVIRYFEENNQIAE	EIERNTIREQLLTTGTNGAVQ.I.EDEEEP.DLL..LE.....S.....349	
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGR	KANAACKYLEENPEI	IGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....347	
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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
NTDB id	159	SP	RS09750	WP	001085462.1	E	388
NTDB id	499	SM12261	RS08315	WP	078228268.1	E	384
NTDB id	527	SMSK321	RS11065	WP	001085454.1	E	384
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
NTDB id	358465	E7744	RS10285	WP	137774030.1	.	352
NTDB id	1245	Cj1673c	YP	002345041.1	.		343
NTDB id	1211	C694	RS00795	WP	000963128.1	.	347
NTDB id	1214	NCTC11637	00359	SQJ03206.1	.		347
NTDB id	1334	RA0C	RS04870	WP	004918236.1	.	343
NTDB id	1389	A4U84	RS07560	WP	021112712.1	.	372
NTDB id	1130	NGFG	RS03960	WP	003688695.1	.	348
NTDB id	1124	NGFG	RS03960	WP	003688695.1	.	348
NTDB id	1123	OK783	RS03845	WP	003688695.1	.	348
NTDB id	1427	RS	RS02760	WP	011000510.1	.	352
NTDB id	1165	A1552VC	RS01565	WP	000344154.1	.	354
NTDB id	1142	GTF74	RS11550	WP	000344154.1	.	354
NTDB id	1022	ACIAD	RS06390	WP	004925639.1	.	349
NTDB id	1074	ABD1	RS10195	WP	000344167.1	.	349
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consensus							

- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved