

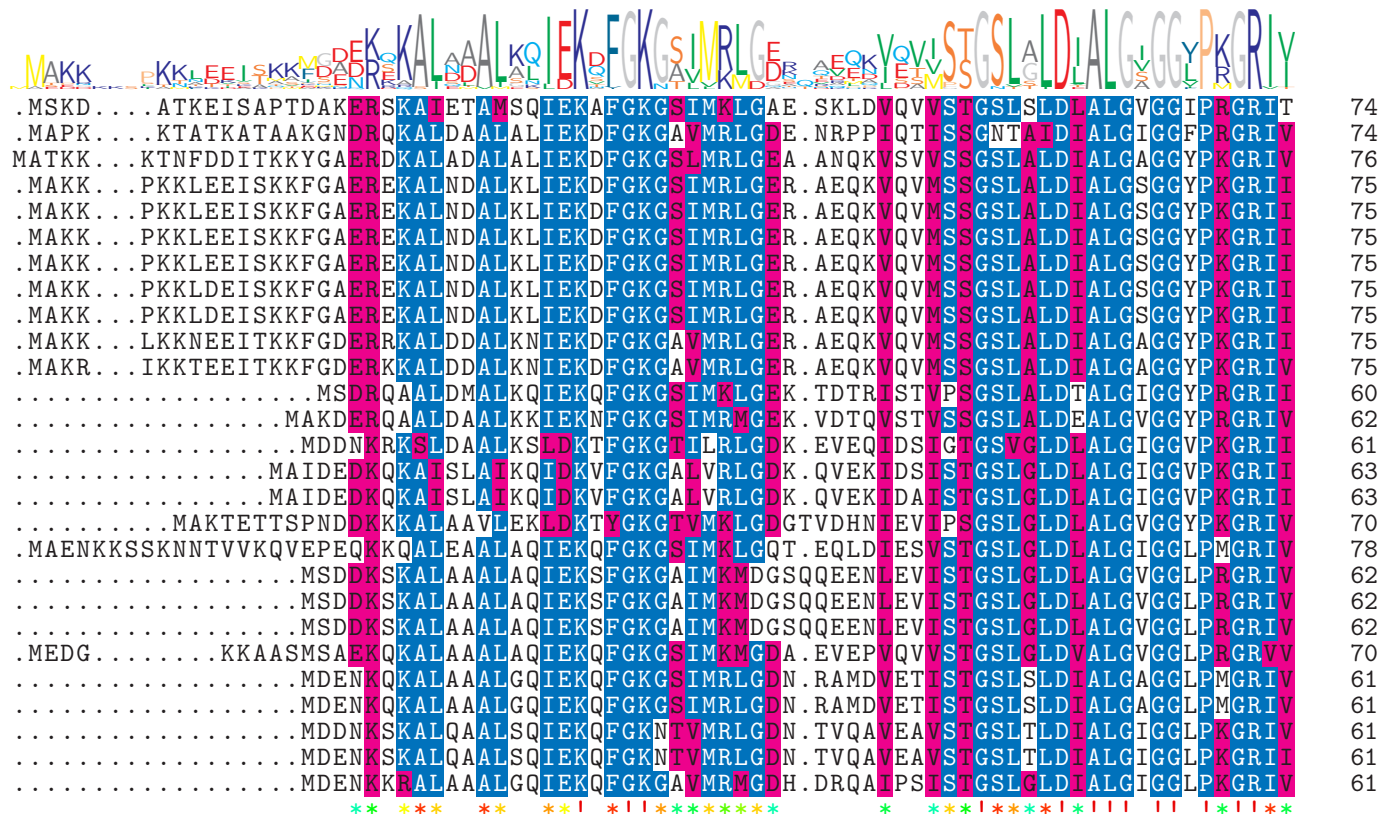
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NTDB id 373576 FOY32 RS00650 WP 003857444.1
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NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
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 0049255639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 Q5545 AFN77183.1

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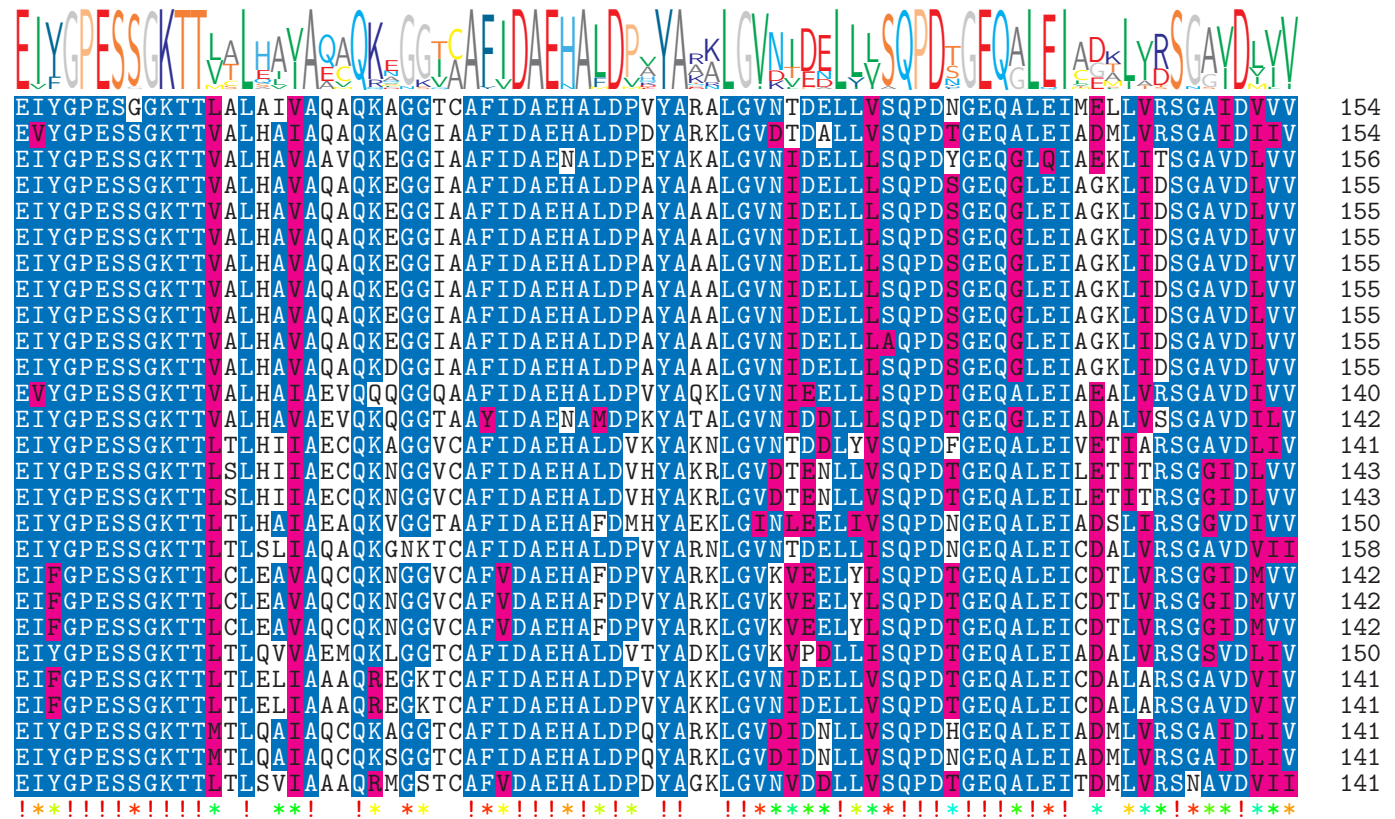
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 1205 PSJM300 05545 AFN77183.1

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NTDB id 1313 DR RS12030 WP 010888966.1	RLDVRKIGQ...PTKVGND	AVANTV	IKTVKNKVA	APFKE	VELAL	VYGK	GFDQLS	DLVGL	AADM	DI	IKKAGS	FYSY	GD	309
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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQ	IGKIT	IKVVKNKV	APPFK	KVAL	DIMF	GEGIS	ST	GELN	IAVEE	GIIKK	SGAW	FAYND	314
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKET	IKVVKNKV	APPFK	KEAVV	EIMY	GEGIS	KT	GELL	KIAS	DL	DI	IKKAGAW	313
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NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKET	IKVVKNKV	APPFK	KEAVV	EIMY	GEGIS	KT	GELL	KIAS	DL	DI	IKKAGAW	313
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKET	IKVVKNKV	APPFK	KEAVV	EIMY	GEGIS	KT	GELL	KIAS	DL	DI	IKKAGAW	313
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKET	IKVVKNKV	APPFK	KEAFV	EIMY	GEGIS	KT	GELL	KIAS	DL	DI	IKKAGAW	313
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKET	IKVVKNKV	APPFK	KEAFV	EIMY	GEGIS	KT	GELL	KIAS	DL	DI	IKKAGAW	313
NTDB id 453 SPU49 1753c ACI62003.1	RLDVRGTTQIKGTG.DQKDS	IGKET	IKVVKNKV	APPFK	KVAEV	EIMY	GEGIS	R	TGEL	VKIAS	DL	DI	IKKAGAW	313
NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRGNTQIKGTG.EQKDS	IGKET	IKVVKNKV	APPFK	KEAFV	EIMY	GEGIS	R	TGEL	VKIAS	DL	DI	IKKAGAW	313
NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN.....DV	MGNK	TKIKVVKNKV	APPFR	TAEV	DIMY	GEGIS	KE	GEI	IDL	GTEL	DIVQ	KS	294
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NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNR	AKVVKNKV	APPFR	RQAEF	DIMF	GEGIS	KE	GEI	IDY	GV	KLDIV	DKS	298
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNR	AKVVKNKV	APPFR	RQAEF	DIMF	GEGIS	KE	GEI	IDY	GV	KLDIV	DKS	298
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRSLSDTGKIKDKSGEV	IGNR	TKVVKNKV	APPFK	KSAEF	DIMY	GEG	VSKV	GEILD	VAT	DL	DI	IKKSG	309
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGEI	IGSE	TKVVKNKV	APPFR	REVQF	DIMY	GEGIS	R	MNELL	ILAE	ANG	FI	IKKSG	312
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGS....I.KKGEVL	GNET	RVKVIKNKV	APPFR	RQAEF	DILY	GEGIS	W	GELID	IG	VKN	DI	INK	296
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGS....I.KKGEVL	GNET	KVVKNKV	APPFR	RQAEF	DILY	GAG	V	SREGE	IIDL	GV	EAK	VVEK	304
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNET	RIKVVKNK	IAAPF	KEANTQ	IMYGG	GFNR	REGEL	IDL	GV	VKHK	MVEK	SGAW	295
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNET	RIKVVKNK	IAAPF	KEANTQ	IMYGG	GFNR	REGEL	IDL	GV	VKHK	MVEK	SGAW	295
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEGDEI	IGSE	TKVVKNKV	MAPPF	RQAEF	ILY	GKGV	NQL	GELV	DLAV	QQN	IVQ	KAGAW	295
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consensus	!***!*	*	**	*****!***!!*****!*	*	*****!*	*****	*****	***	***	!	*****!		

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 373576 FOY32 RS00650 WP 003857444.1	QLGGGKEKVRLSLKENPELTDELEDKIFKKLGVGKYAAASDELTDTPV...ELVPNV.....DFDDEADTEAD	373
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
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NTDB id 115 BSU 16940 NP 389576.2	RLGGGRENAKQFLKENKDIMLMIQEIQREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
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NTDB id 1245 Cj1673c YP 002345041.1	KLGGGRENSKAFLENPEIADIEITKAIQNSMGIEGMISGSEDD..EGEE.....	343
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....	354
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NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347
consensus	**!!!!***** ** ***** ***** ** *	

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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347
consensus		

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 ≥ 50% conserved