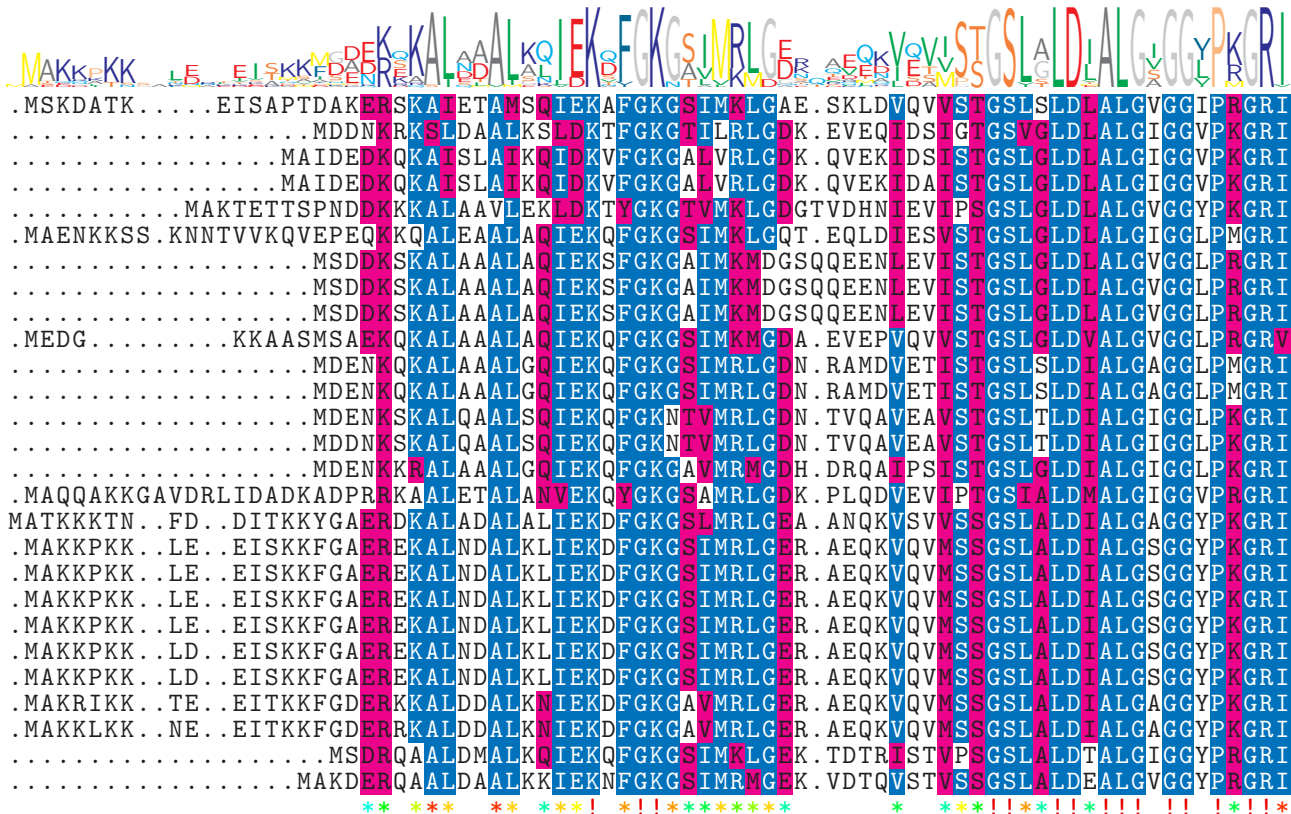


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NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
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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 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1

consensus



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NTDB id 1334 RA0C RS04870 WP 004918236.1	VEIYGPESSGKTTTTLHAI	149
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESSGKTTTTLSLI	157
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NTDB	id	1211	C694	RS00795	WP	000963128.1	VVDSVAALT	TPKAEIE	DGDMGDQ	HVGLQARL	MSHALR	KITGV	LHKMNTTL	IFINQI	RMKIGMM	GYGSPETT	TGGNALKFYAS	222	
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NTDB	id	38842	HMPREF0421	RS04240	WP	004113623.1	VVDSVAALV	PKAEIE	DGDMGDS	HVGLQARL	MSQALR	KMTGALS	QAGTAA	IFINQL	REKIGVF	FGNPETT	TGGKALKFYSS	237	
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NTDB	id	453	Spy49	1753c	ACI62003.1	VVDSVAALV	PRAEIE	DGDI	GD	SHVGLQARM	MSQAMR	KLTVH	IKKTNCLV	IFINQL	REKVGVM	FGNPETT	TGGGRALKFYAS	233	
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NTDB	id	625	LCA	RS02525	WP	011374196.1	VVDSVAALV	PRAEIE	EGMGDA	HVGLQARL	MSQALR	KLTVH	IKKTNCLV	IFINQI	IREKVGVM	FGNPETT	TGGGRALKFYST	220	
consensus							***												

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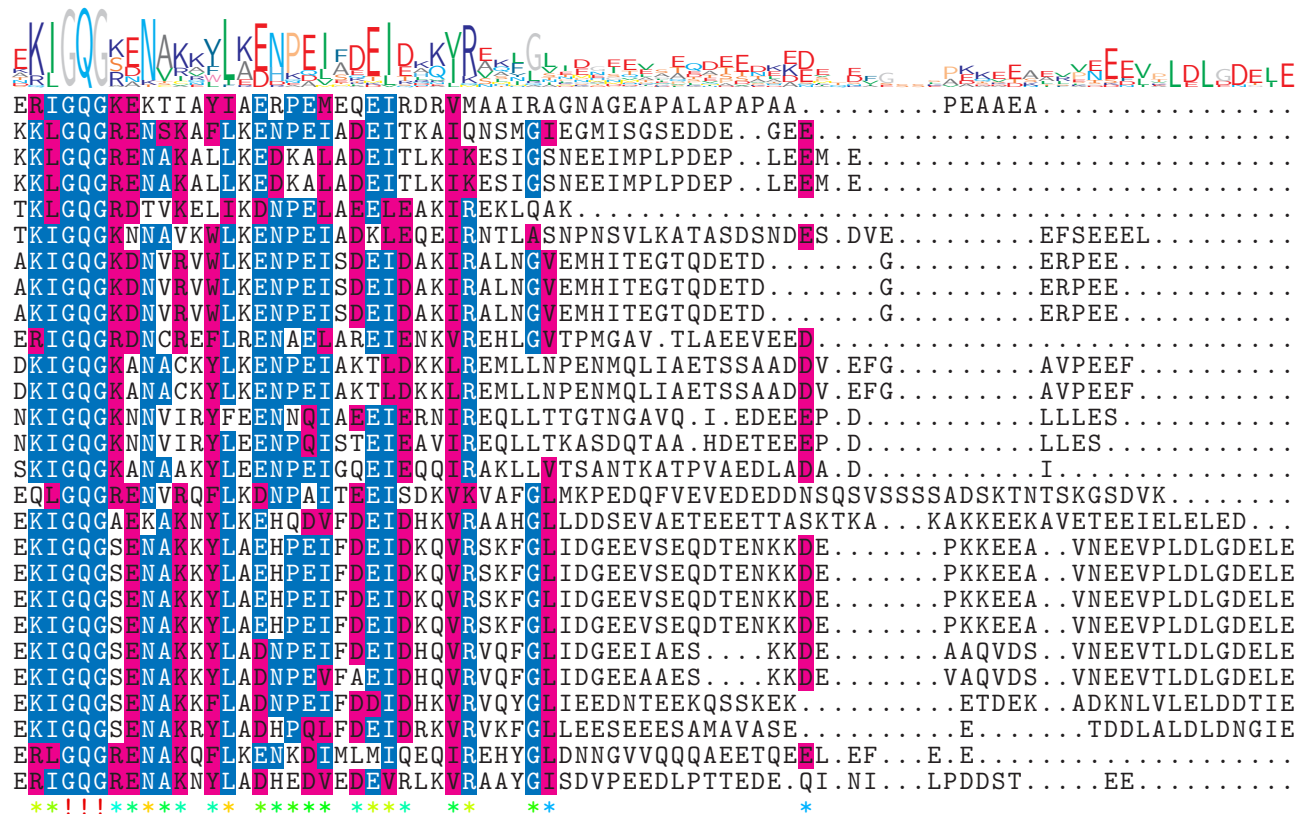
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NTDB	id	1427	RS	RS02760	WP	011000510.1	VRLDIRRIGS....I.KKGEV	GNETKV	KVVKNKVAPPFR	EAFID	DILYGCAGVS	REGEID	LGVEAKVVEK	SGAWYSYNG	303		
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NTDB	id	1142	GTF74	RS11550	WP	000344154.1	VRLDIRRTGA....I.KEGEEV	VGNETRI	KVVKNKTAAPFK	EANTQ	DIMYQGCFN	REGELID	LGVKHKMVEK	SGAWYSYNG	294		
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NTDB	id	1022	ACTAD	RS06390	WP	004925639.1	VRLDIRRIGQ....V.KEGDEI	VGSETKV	KVVKNKMAPPFR	EAFQ	DILYCGKGTN	QLGELVD	LAVQQDIVQ	KAGAWYSYQG	294		
NTDB	id	1205	PSJM300	05545	AFN77183.1		VRLDIRRTGA....V.KEGDEV	IGSETRV	KVVKNKVAPPFRQA	EFD	DILYCGKITR	NGEITD	LGVCQGLVEK	SGAWYAYKG	294		
NTDB	id	38842	HMPREF0421	RS04240	WP	004113623.1	VRMDIRRVSTIKNGE....EAVGN	RTTKV	KIVKNKMAPPFK	TAEF	DVLVYGE	GISTEGS	VIDMAVQC	DVIKKS	SGSWFTYEG	312	
NTDB	id	600	KW2	RS01765	WP	011675413.1	VRLDVRGSTKIEEGS.GDNKTQ	IGKITTK	KVVKNKVAPPFK	VALV	DIMFGEGIS	SSTGEL	LNIAVEEG	TIKKS	SGAWFAYND	313	
NTDB	id	269	KZH43	RS08665	WP	001085462.1	VRLDVRGNTQIKGTG.DQKETN	VGKETKI	KVVKNKVAPPFK	EAVV	EIMYGEGIS	KTGEL	LKIASD	LDI	IKKAGAWYSYKD	312	
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NTDB	id	499	SM12261	RS08315	WP	078228268.1	VRLDVRGSTQIKGTG.DQKDTN	VGKETKI	KVVKNKVAPPFK	EAFV	EIMYGEGIS	KTGEL	LKIASD	LDI	IKKAGAWYSYKD	312	
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NTDB	id	408	SMU	RS09530	WP	002262392.1	VRLDVRGNTQIKGTG.EQKDSN	IGKETKI	KVVKNKVAPPFK	EAFV	EIIYGEGIS	SR	TGELVK	IASD	LGIIQK	KAGAWYSYNG	312
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consensus

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IEEE

NTDB	id	1313	DR	RS12030	WP	010888966.1		363
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consensus

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