

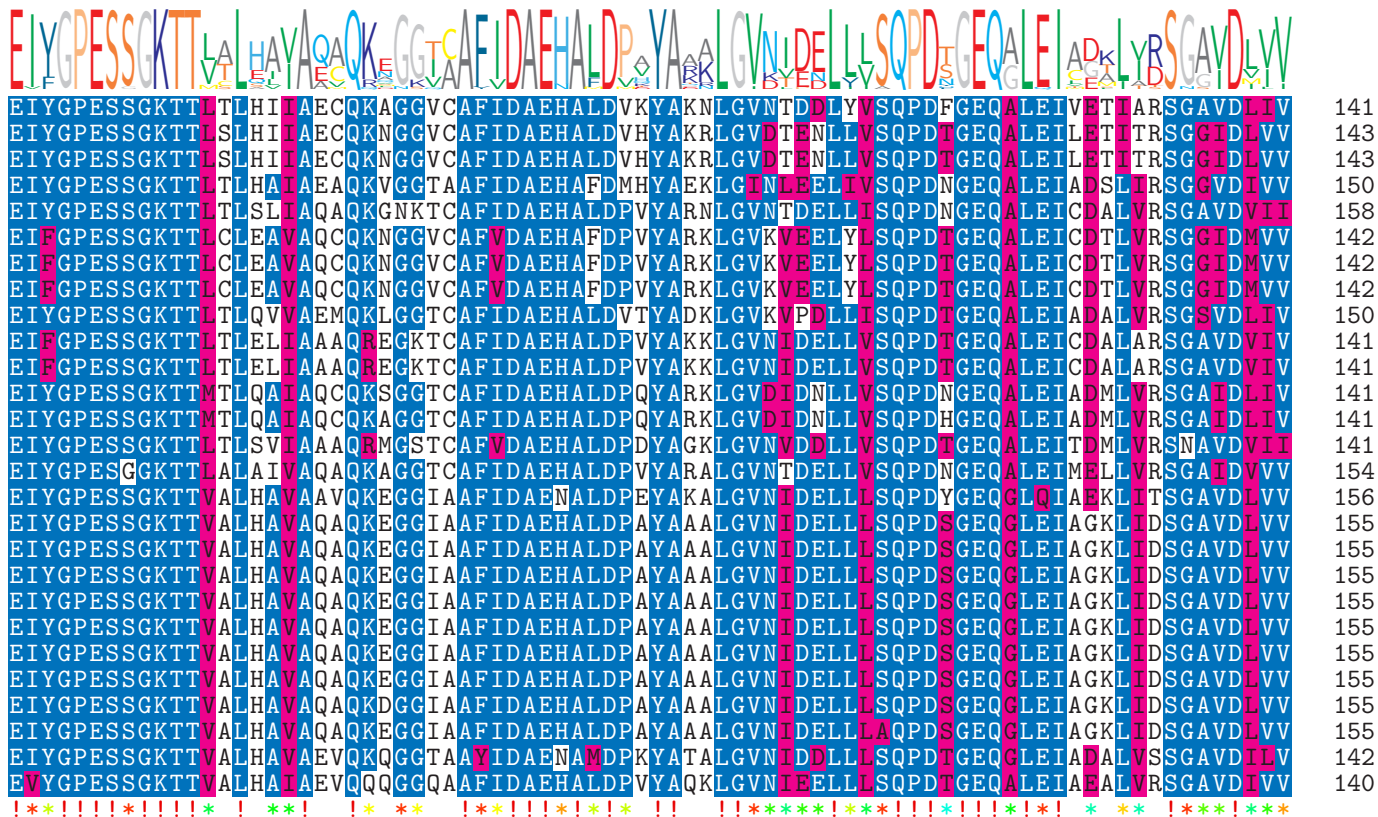
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NTDB	id	1214	NCTC11637 00359 SQJ03206.1	MAIDEDKKQKAISLA	KQ	IDKV	FGKGATVRLGDK	.QVEK	IDA	STGS	LGLD	LALGI	GGVPKGR	I	63			
NTDB	id	1211	C694 RS00795 WP 000963128.1	MAIDEDKKQKAISLA	KQ	IDKV	FGKGATVRLGDK	.QVEK	DS	STGS	LGLD	LALGI	GGVPKGR	I	63			
NTDB	id	1334	RAOC RS04870 WP 004918236.1	MAKTETTSPPNDKKKALA	AVLEK	LDKT	YVGKTVMKLGD	GTVDHN	IEV	PSGS	LGLD	LALGV	GGPYKGR	I	70			
NTDB	id	1389	A4U84 RS07560 WP 021112712.1	..MAENKKSSKNNTVVVKQ	VEPEK	KKQA	LEAALAQ	IEKQ	FGKGSIMKL	LGQT	.EQLD	IESV	STGS	LGLD	LALGI	GGLPMGR	I	78
NTDB	id	1130	NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQ	IEKS	SFGKGA	IMKMDGS	QQEEN	LEV	STGS	LGLD	LALGV	GGLPRGR	I	62			
NTDB	id	1124	NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQ	IEKS	SFGKGA	IMKMDGS	QQEEN	LEV	STGS	LGLD	LALGV	GGLPRGR	I	62			
NTDB	id	1123	OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQ	IEKS	SFGKGA	IMKMDGS	QQEEN	LEV	STGS	LGLD	LALGV	GGLPRGR	I	62			
NTDB	id	1427	RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQ	KALAAALAQ	IEKQ	FGKGSIMKMGDA	.EVEPV	QVV	STGS	LGLD	VALGV	GGLPRGR	IV	70			
NTDB	id	1165	A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQ	IEKQ	FGKGSIMR	LGDN	.RAMDV	ETI	STGS	LSD	IAGAG	GLPMGR	I	61			
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NTDB	id	1074	ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQ	IEKQ	FGKNTVM	RRLGDN	.TVQAVE	EAV	STGS	LTD	IALGI	GGLPKGR	I	61			
NTDB	id	1022	ACIAD RS06390 WP 004925639.1	MDDNKSALQAALSQ	IEKQ	FGKNTVM	RRLGDN	.TVQAVE	EAV	STGS	LTD	IALGI	GGLPKGR	I	61			
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NTDB	id	1313	DR RS12030 WP 010888966.1	.MSKD...AT.KEISAPTDAKER	SKATETAM	SQ	IEKA	FGKGSIMKL	GAE	.SKLDV	QVV	STGS	LSD	LALGV	GGLPRGR	IT	74	
NTDB	id	600	KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAE	ERDKALADALAL	IEKD	DFGKGSIMR	LGEA	.ANQKV	SVS	SGSL	ALD	IAGAG	GYPKGR	I	76		
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NTDB	id	115	BSU 16940 NP 389576.2	MSDRQAALDMALKK	IEKQ	FGKGSIMKL	GEX											

Figure 1: Schematic representation of the 1200 bp DNA fragment. The top part shows a linear map with 12 restriction sites (HindIII, EcoRI, XbaI, SalI, KpnI, BamHI, PstI, SmaI, XbaI, EcoRI, HindIII, KpnI) and their corresponding restriction enzymes. The bottom part shows the resulting DNA fragments (A-M) and their sizes in base pairs (bp).

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NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 02112712.1
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 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 115 BSU 16940 NP 389576.2
consensus

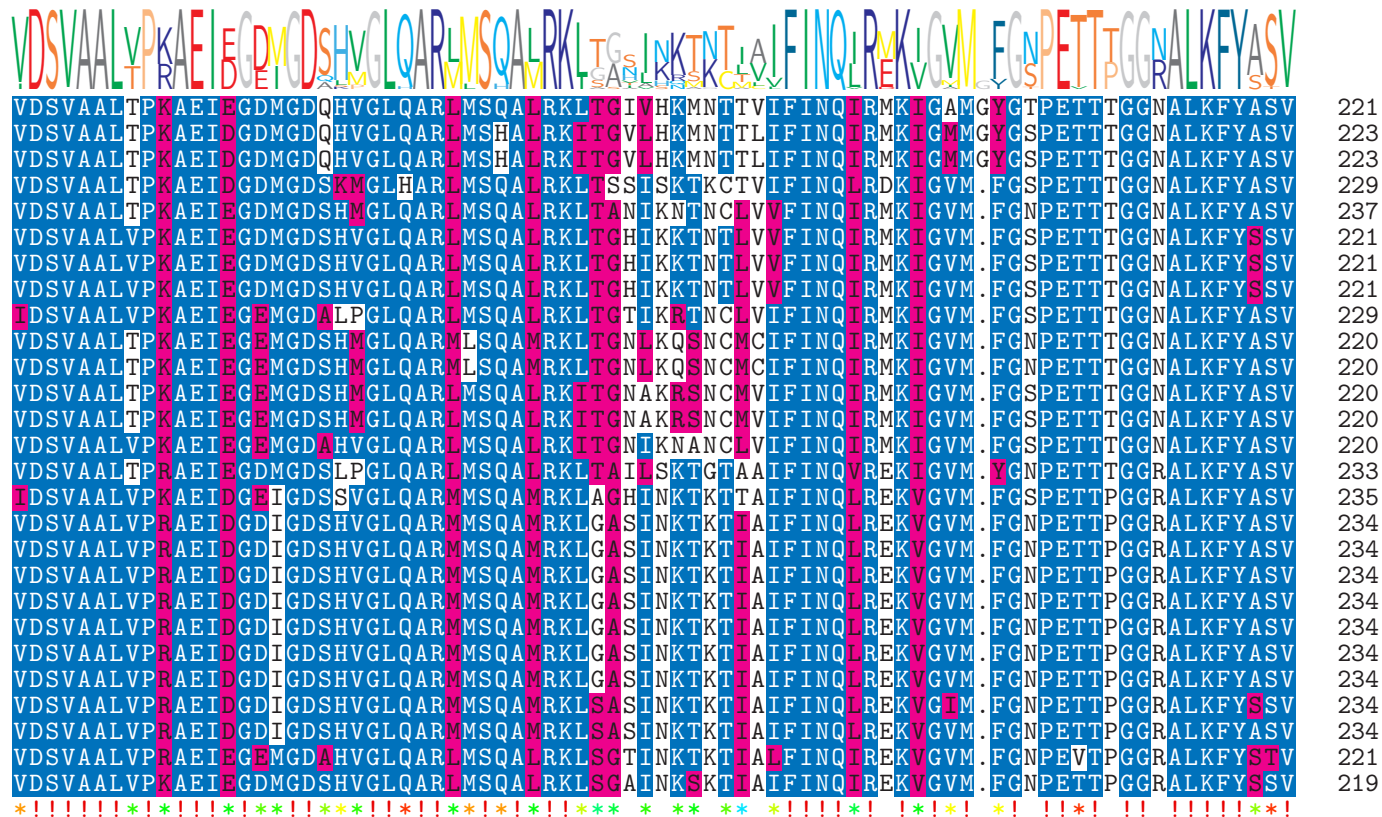
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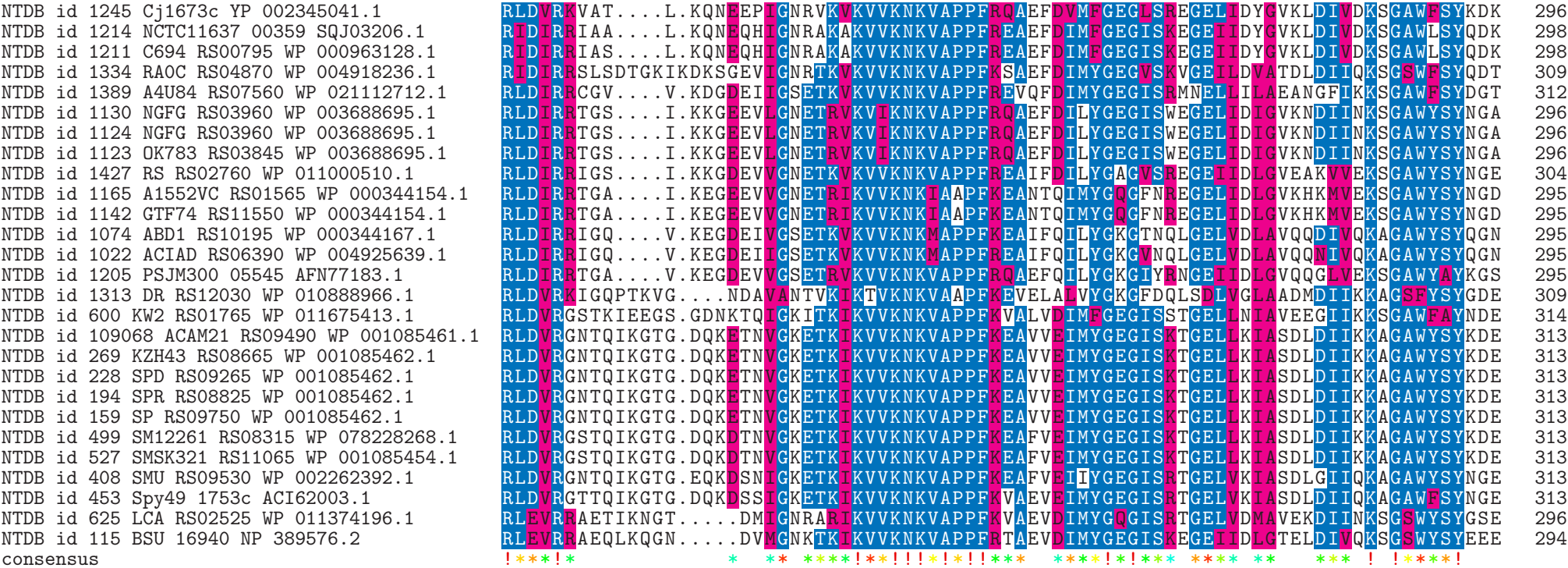
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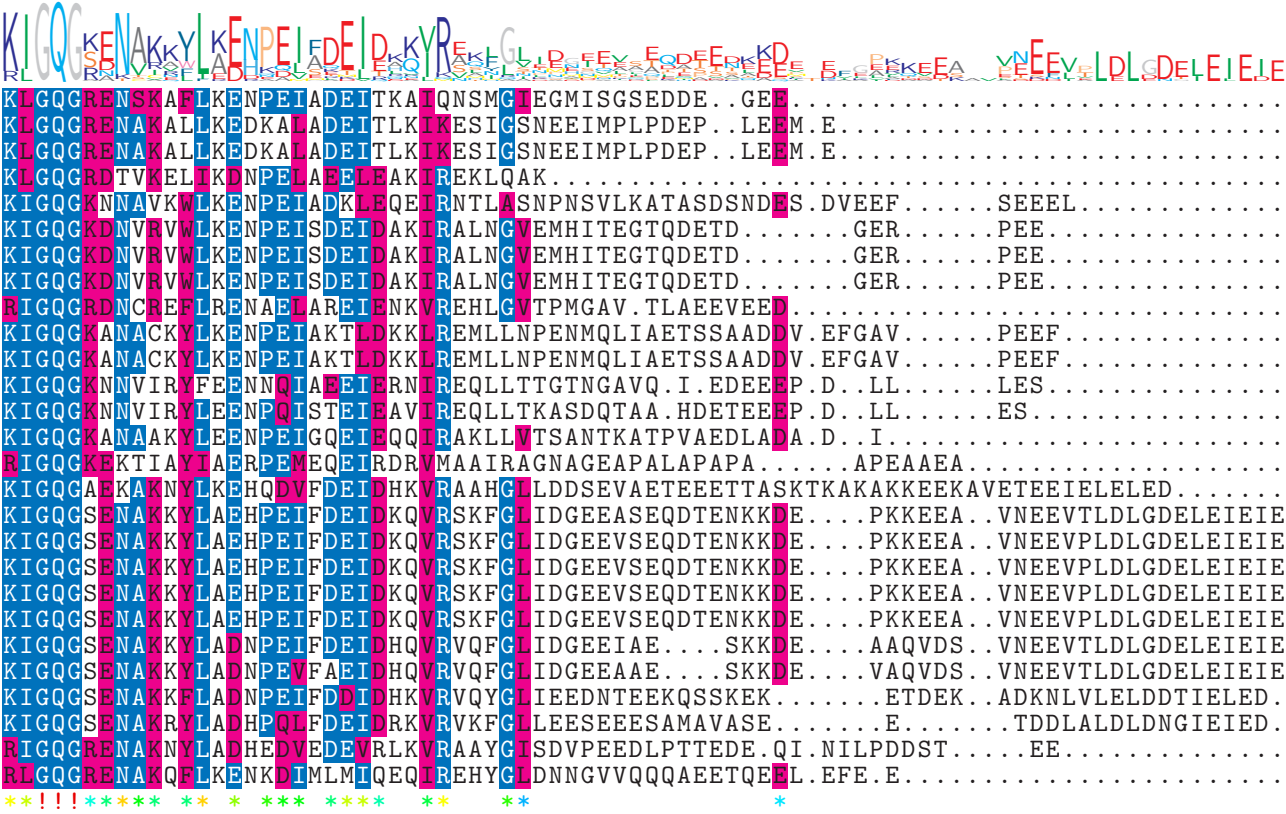


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consensus



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NTDB	id	625	LCA RS02525 WP 011374196.1	. 355
NTDB	id	115	BSU 16940 NP 389576.2	. 348
consensus				

-  non conserved
-  similar
-  ≥ 50% conserved