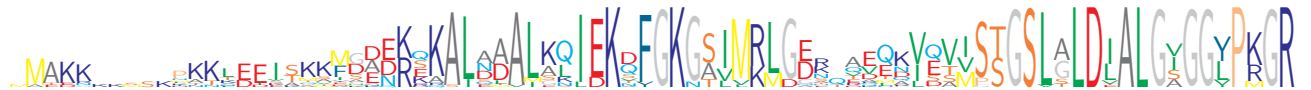


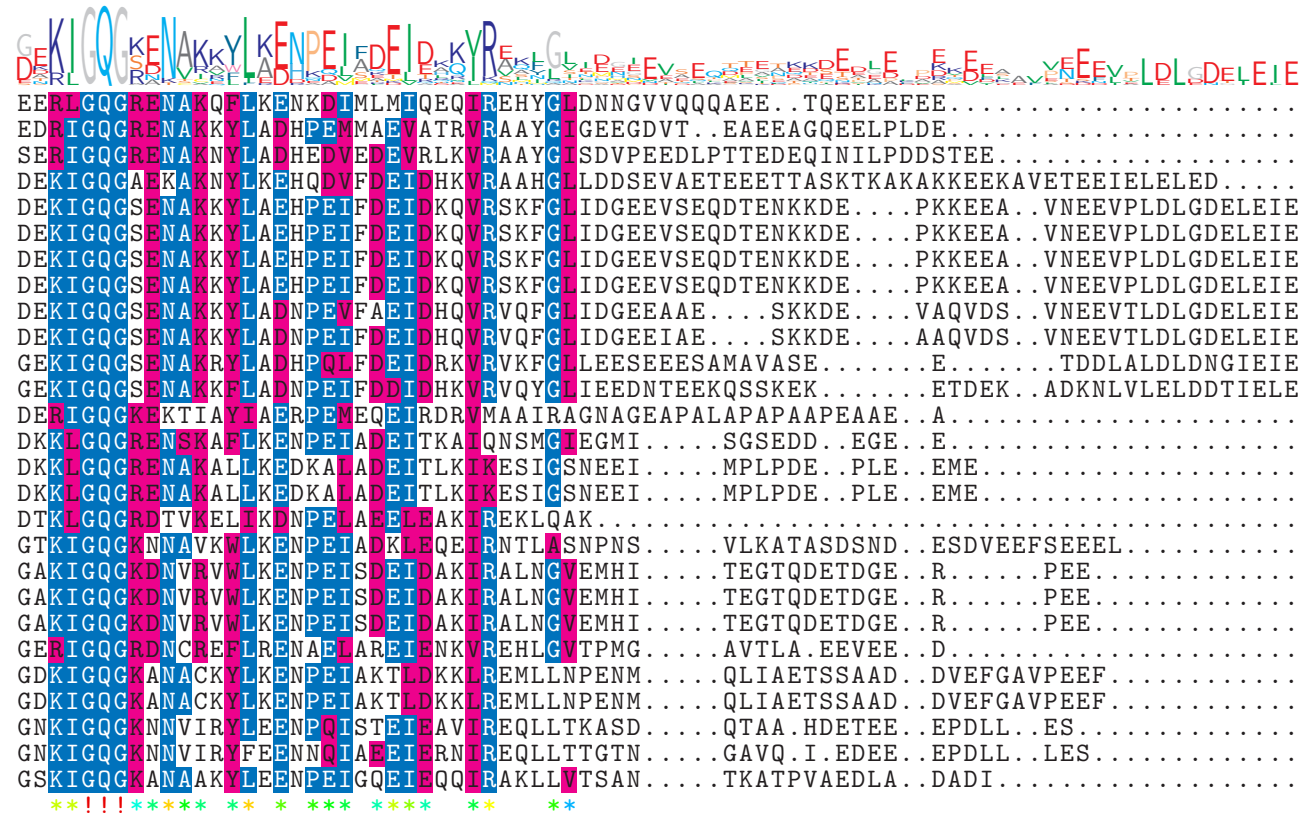
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NTDB id 115 BSU 16940 NP 389576.2MS	DRQAALDMALKQIEKQFGKGSIMKLGEEK	.TDTRI	ISTVPSGSLALD	TALGIGGYPKGR	58			
NTDB id 329514 EH197 RS01365 WP 016179435.1	.....MAN	DRKAALDAAMKKIEKNYKGSIMKLGEEK	.VDQQT	ISTIPSGSLALD	VALGVGGYPKGR	59		
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKKIEKNFSGKGSIMRMGEEK	.VDTQV	STVSSGSLALDE	ALGVGGYPKGR	60		
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....	KTNFDDITKKYGERDKALADALALIEKD	FGKGSIMRLG	EA.ANQKV	SVVSSGSLALD	TALGAGGYPKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....	PKKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKV	QVMSSGSLALD	TALGSGGYPKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....	PKKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKV	QVMSSGSLALD	TALGSGGYPKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....	PKKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKV	QVMSSGSLALD	TALGSGGYPKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....	PKKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKV	QVMSSGSLALD	TALGSGGYPKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....	PKKLDEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKV	QVMSSGSLALD	TALGSGGYPKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....	PKKLDEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKV	QVMSSGSLALD	TALGSGGYPKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....	LKKNEEITKKFGDERRKALDDALKNIEKD	FGKGAVMRLG	ER.AEQKV	QVMSSGSLALD	TALGAGGYPKGR	73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....	IKKTEEITKKFGDERKKALDDALKNIEKD	FGKGAVMRLG	ER.AEQKV	QVMSSGSLALD	TALGAGGYPKGR	73		
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSK	DATKEISAPTDAKERSKATETAMSQIEKA	FGKGSIMKLG	AE.SKLDV	QVVSTGSLSLD	LALGVGGIPKGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSLSLDAALKS	LDKTFGKGTILRLGDK	.EVEQ	IDSIGTGSVGLDL	ALGIGGVPKGR	59	
NTDB id 1211 C694 RS00795 WP 000963128.1MAIDE	DKQKATISLAIKQIDKVF	FGKGA	LVR	LDGK.QVEK	IDSISTGSLGLDL	TALGIGGVPKGR	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1MAIDE	DKQKATISLAIKQIDKVF	FGKGA	LVR	LDGK.QVEK	IDAISTGSLGLDL	TALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT	.ETTSPND	DKKKALAAVLEK	LDKT	YKGTVMKLG	DGTVDHNI	EVIPSGSLGLDL	TALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENK	KSSKNNTV.VKQVEPEK	KKQALEAALAQIEKQ	FGKGSIMKLG	QT.EQLD	IESVSTGSLGLDL	TALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGS	QREEN	LEVISTGSLGLDL	TALGVGGLPKGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGS	QREEN	LEVISTGSLGLDL	TALGVGGLPKGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGS	QREEN	LEVISTGSLGLDL	TALGVGGLPKGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....	K.KAASMSAEKQKALAAALAQIEKQ	FGKGSIMKMG	DA.EVEP	VQVVSTGSLGLD	VALGVGGLPKGR	68		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQ	FGKGSIMRLG	DN.RAMD	VETISTGSLSLD	TALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQ	FGKGSIMRLG	DN.RAMD	VETISTGSLSLD	TALGAGGLPMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KSKALQAALSQIEKQ	FGKNTVMRLG	DN.TVQ	AVEAVSTGSLTLD	TALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KSKALQAALSQIEKQ	FGKNTVMRLG	DN.TVQ	AVEAVSTGSLTLD	TALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQA	IPSISTGSLGLD	TALGIGGLPKGR	59		
consensus		** ** ** *	**!	*****	*	*****!!!!!!!	!!!!!!!		

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NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 329514 EH197 RS01365 WP 016179435.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 600 KW2 RS01765 WP 011675413.1
 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 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 1313 DR RS12030 WP 010888966.1
 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 RAOC 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 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1205 PSJM300 05545 AFN77183.1
 consensus



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		IEE	
NTDB id 115	BSU 16940 NP 389576.2	...	348
NTDB id 329514	EH197 RS01365 WP 016179435.1	...	349
NTDB id 625	LCA RS02525 WP 011374196.1	...	355
NTDB id 600	KW2 RS01765 WP 011675413.1	...	387
NTDB id 269	KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228	SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194	SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159	SP RS09750 WP 001085462.1	IEE	388
NTDB id 527	SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 499	SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 453	Spy49 1753c ACI62003.1	D..	378
NTDB id 408	SMU RS09530 WP 002262392.1	D..	383
NTDB id 1313	DR RS12030 WP 010888966.1	...	363
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	RAOC 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
NTDB id 1205	PSJM300 05545 AFN77183.1	...	347

consensus

non conserved
 similar
 ≥ 50% conserved