

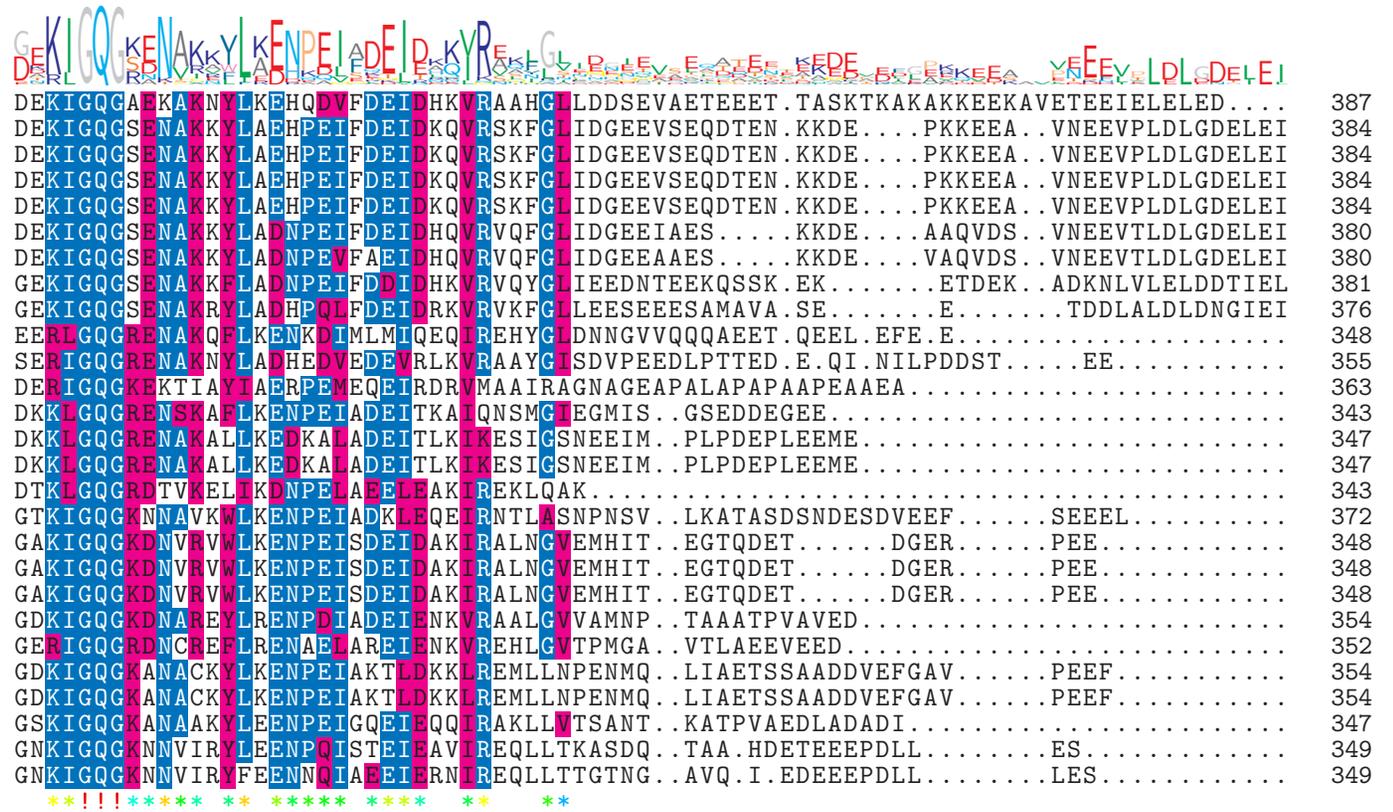
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK....KKTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGERAEQ	.KVS	VSSGSLALDI	ALGAGGYPKGR	74							
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGERAEQ	.KVQ	VMSGSLALDI	ALGSGGYPKGR	73							
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGERAEQ	.KVQ	VMSGSLALDI	ALGSGGYPKGR	73							
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGERAEQ	.KVQ	VMSGSLALDI	ALGSGGYPKGR	73							
NTDB id 159 SP RS09750 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGERAEQ	.KVQ	VMSGSLALDI	ALGSGGYPKGR	73							
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGERAEQ	.KVQ	VMSGSLALDI	ALGSGGYPKGR	73							
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGERAEQ	.KVQ	VMSGSLALDI	ALGSGGYPKGR	73							
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK....RIKKTTEEITKKFGD	ERRKALDDALKN	IEKDFGKGVMLRGERAEQ	.KVQ	VMSGSLALDI	ALGAGGYPKGR	73							
NTDB id 453 Spy49 1753c ACI62003.1	.MAK....KLKKNEEITKKFGD	ERRKALDDALKN	IEKDFGKGVMLRGERAEQ	.KVQ	VMSGSLALDI	ALGAGGYPKGR	73							
NTDB id 115 BSU 16940 NP 389576.2MS	DRQAALDMALKQ	IEKQFGKGSIMKLG	EKTDT	.RIST	VPSGSLALDI	TALGIGGYPKGR	58						
NTDB id 625 LCA RS02525 WP 011374196.1MAKD	ERQAALDAALKK	IEKNFGKGSIMRM	GKVD	.QVST	VSSGSLALDE	ALGVGGYPRGR	60						
NTDB id 1313 DR RS12030 WP 010888966.1MSKDATKEISAP	TDAKERSKAT	ETAMSI	IEKAFGKGS	IMKLG	AESKLD	DVQV	VSTGSLSLDL	ALGVGGIPRGR	72				
NTDB id 1245 Cj1673c YP 002345041.1MDDN	KRKS	SLDAALKS	LDKT	FGKGT	ILRLG	DEVE	.QIDS	IGTGSVGLDL	ALGIGGVPKGR	59			
NTDB id 1211 C694 RS00795 WP 000963128.1MAIDE	DKQK	ATSLAI	KQID	KVFGK	GALVRLG	DKQVE	.KIDS	ISTGSLGLDL	ALGIGGVPKGR	61			
NTDB id 1214 NCTC11637 00359 SQJ03206.1MAIDE	DKQK	ATSLAI	KQID	KVFGK	GALVRLG	DKQVE	.KIDA	ISTGSLGLDL	ALGIGGVPKGR	61			
NTDB id 1334 RAOC RS04870 WP 004918236.1MAK..TETTSPND	DKK	KALAAVLEK	LDKT	YGKGT	VMKLG	DGTVD	HNIEV	IPSGSLGLDL	ALGVGGYPKGR	68			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNT..VVKQ	VEPEK	KKQ	ALEA	AALQ	IEKQ	FGKGS	IMKLG	QTEQL	.DIES	VSTGSLGLDL	ALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1MSD	DK	SKALAAAL	AALQ	IEKS	FGKGA	IMKMDGS	Q	Q	Q	EENLE	ISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1MSD	DK	SKALAAAL	AALQ	IEKS	FGKGA	IMKMDGS	Q	Q	Q	EENLE	ISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1MSD	DK	SKALAAAL	AALQ	IEKS	FGKGA	IMKMDGS	Q	Q	Q	EENLE	ISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 357877 E6A55 RS02750 WP 010812222.1	.MDD.....K..KAGAGVSA	EKQ	KALAAALS	Q	IEKQ	FGKGS	IMRLGD	GEVE	KDI	QVV	STGSLGLDI	ALGVGGLPRGR	69	
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....G..KKAASMSA	EKQ	KALAAALA	Q	IEKQ	FGKGS	IMKMG	DAEVE	.PVQ	V	STGSLGLD	VALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1MDEN	KQ	KALAAALG	Q	IEKQ	FGKGS	IMRLGD	NRAM	.DVET	ISTGSLSLDI	ALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1MDEN	KQ	KALAAALG	Q	IEKQ	FGKGS	IMRLGD	NRAM	.DVET	ISTGSLSLDI	ALGAGGLPMGR	59		
NTDB id 1205 PSJM300 05545 AFN77183.1MDEN	KK	RALAAALG	Q	IEKQ	FGKGA	VMRMG	DHDRQ	.AIP	S	ISTGSLGLDI	ALGIGGLPKGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1MDDN	KS	KALQAALS	Q	IEKQ	FGKNT	VMRLGD	N	TVQ	.AVE	A	VSTGSLTLDI	ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDEN	KS	KALQAALS	Q	IEKQ	FGKNT	VMRLGD	N	TVQ	.AVE	A	VSTGSLTLDI	ALGIGGLPKGR	59
consensus		**	**	**	***!	***!	*****	*	***!	***!	***!	***!	***!	

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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 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
 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 357877 E6A55 RS02750 WP 010812222.1
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 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 115 BSU 16940 NP 389576.2	....	348
NTDB id 625 LCA RS02525 WP 011374196.1	....	355
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 357877 E6A55 RS02750 WP 010812222.1	....	354
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 1205 PSJM300 05545 AFN77183.1	....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	....	349

consensus

non conserved
 similar
 ≥ 50% conserved