

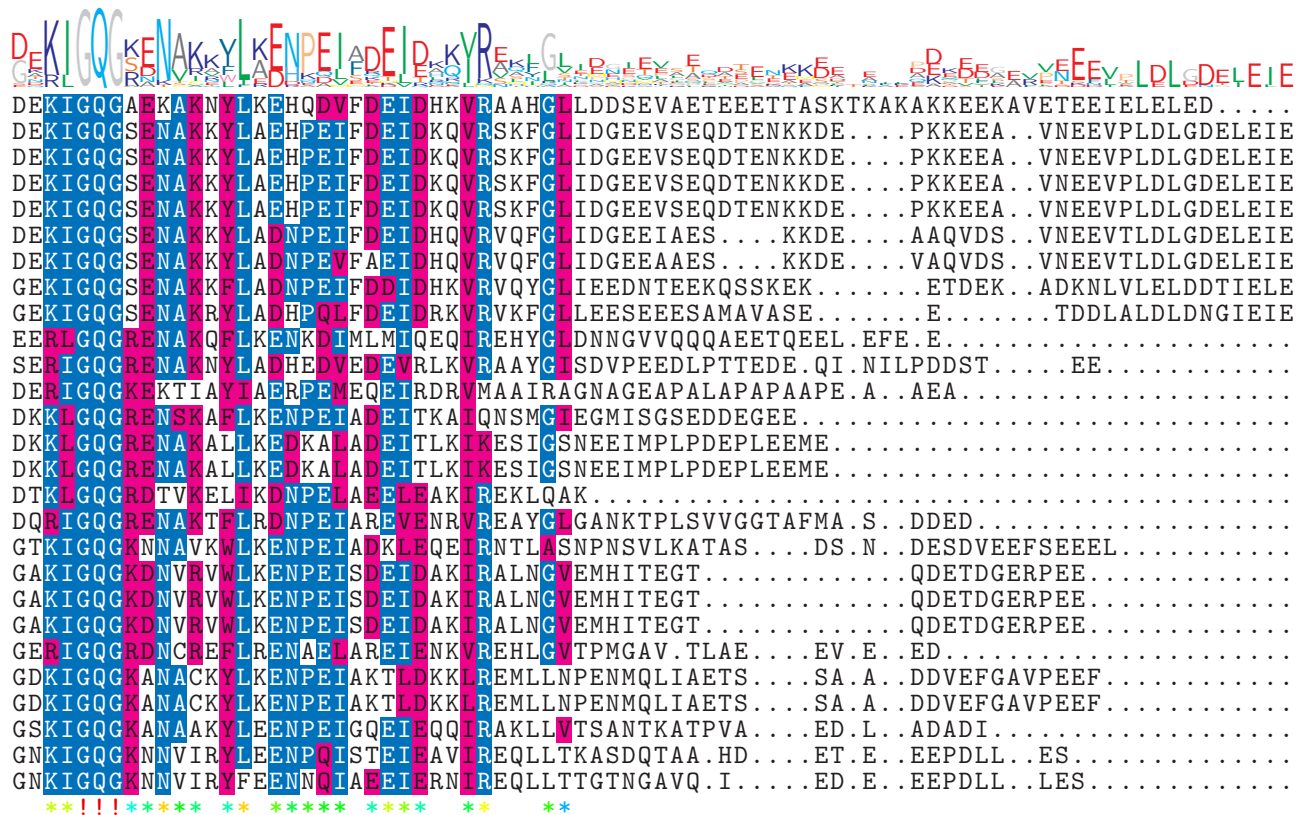
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NTDB id 600 KW2 RS01765 WP 011675413.1MATKKKTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGER	.ANQKVS	VSSGSLALDI	I	ALGAGGYP	KGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYP	KGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYP	KGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYP	KGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYP	KGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.....MAKKPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYP	KGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.....MAKKPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYP	KGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.....MAKRIKKTTEEITKKFGD	ERRKALDDALKN	IEKDFGKGVAMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYP	KGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.....MAKKLKKNEEITKKFGD	ERRKALDDALKN	IEKDFGKGVAMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYP	KGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	EK.TDTR	ISTVPSGSLALDI	I	ALGIGGYP	PRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRMG	EK.VDTQVSTVSSGSLALDE	ALGVGGYP	PRGR	60		
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDA.TKEISAPTD	AKERSKATETAM	QIEKAFGKGSIMKLGAE	.SKLDVQVSTGSLSLDL	I	ALGVGGIP	PRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKS	LDKTFGKGTILRLG	DK.EVEQ	IDSIGTGSVGLDL	I	ALGIGGVP	KGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAIVRLGDK.QVEK	IDAISTGSLGLDL	I	ALGIGGVP	KGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAIVRLGDK.QVEK	IDAISTGSLGLDL	I	ALGIGGVP	KGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1MA...KTE..TTSPND	DKKALA	AVLEKLDKTYGKGTVMKLG	DGTVDHNI	IEVIPSGSLGLDL	I	ALGVGGYP	KGR	68
NTDB id 34546 TMO RS05685 WP 041605543.1MVQTE.LRL..TGKDEM	DKQKALEAALGQ	IERAFGKGSVMKLGQ	.EKVDV	VPTGSLALDI	I	ALGVGGFP	PRGR	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNN.TVV..KQVEPE	QKQALEAALA	QIEKQFGKGSIMKLGQT	.EQLD	TESVSTGSLGLDL	I	ALGIGGLP	MGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAAALA	QIEKSFGKGA	IMKMDGSQ	QEE	NEVISTGSLGLDL	I	ALGVGGLP	PRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1MSDDKSKALAAALA	QIEKSFGKGA	IMKMDGSQ	QEE	NEVISTGSLGLDL	I	ALGVGGLP	PRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1MSDDKSKALAAALA	QIEKSFGKGA	IMKMDGSQ	QEE	NEVISTGSLGLDL	I	ALGVGGLP	PRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....KK..AASMSA	EKQKALAAALA	QIEKQFGKGSIMKMGDA	.EVEPVQV	VSTGSLGLD	I	ALGVGGLP	PRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALG	QIEKQFGKGSIMRLG	DN.RAMD	VETISTGSLSLDI	I	ALGAGGLP	MGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALG	QIEKQFGKGSIMRLG	DN.RAMD	VETISTGSLSLDI	I	ALGAGGLP	MGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKRALAAALG	QIEKQFGKGVAMRM	GDH.DRQA	IPSISTGSLGLDI	I	ALGIGGLP	KGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1MDDNKS	KALQAALS	QIEKQFGKNTVMRLG	DN.TVQ	AVEAVSTGSLTLDI	I	ALGIGGLP	KGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKS	KALQAALS	QIEKQFGKNTVMRLG	DN.TVQ	AVEAVSTGSLTLDI	I	ALGIGGLP	KGR	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
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 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 34546 TMO RS05685 WP 041605543.1
 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 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	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 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 115 BSU 16940 NP 389576.2	...	348
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NTDB id 1313 DR RS12030 WP 010888966.1	...	363
NTDB id 1245 Cj1673c YP 002345041.1	...	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	347
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NTDB id 34546 TMO RS05685 WP 041605543.1	...	361
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consensus

 non conserved
 similar
 ≥ 50% conserved