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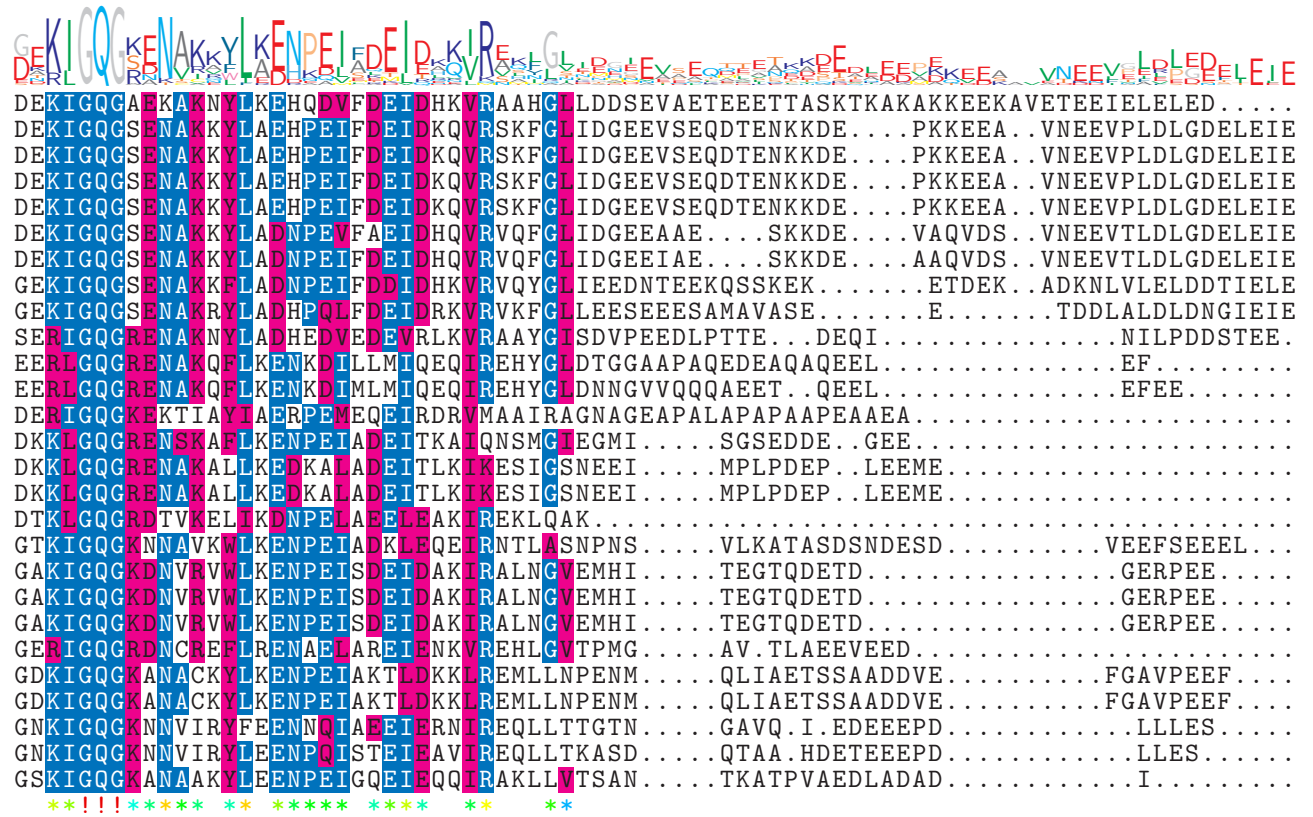


NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLG	EAA	ANQK	VSV	VSS	GSL	ALD	I	ALG	AGGY	PKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	SGGY	PKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	SGGY	PKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	SGGY	PKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	SGGY	PKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	SGGY	PKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	SGGY	PKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	AGGY	PKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	AEQK	VQM	VSS	GSL	ALD	I	ALG	AGGY	PKGR	73	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKKIEKNFGKGSIMRMGEK	ER	VDTQ	VST	VSS	GSL	ALD	E	ALG	VGGY	PRGR	60
NTDB id 232354 S100141 RS06385 WP 003181926.1	.....MS	DRQAALDMALKQIEKQFGKGSIMKLG	EQ	TETRI	STV	PS	GSL	ALD	A	ALG	VGGY	PRGR	58
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQIEKQFGKGSIMKLG	EK	TDTRI	STV	PS	GSL	ALD	T	ALG	IGGY	PRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	AKERSKATETAMSQIEKAFGKGSIMKLG	AE	SKLD	VQV	VST	GSL	SLD	L	ALG	VGGI	PRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSLSLDAALKSLDKTFGKGTILRLG	DK	EVEQ	IDS	IGT	GSV	GLD	L	ALG	IGGV	PKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKATSLAIKQIDKVFGKCALVRLG	DK	QVEK	IDS	IST	GSL	GLD	L	ALG	IGGV	PKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKATSLAIKQIDKVFGKCALVRLG	DK	QVEK	IDA	IST	GSL	GLD	L	ALG	IGGV	PKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT	..ETTSPNDKKKALAAVLEKLDKTYG	KGTVMKLG	GTVDHN	IEV	IP	SGSL	GLD	L	ALG	VGGY	PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV..VKQVEPEQKKQALEAAL	AIKQIEKQFGKGSIMKLG	QT	EQLD	IES	VST	GSL	GLD	L	ALG	IGGL	PMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAIKQIEKQFGKGA	IMKMDGSQ	QEEN	LEVI	IST	GSL	GLD	L	ALG	VGGL	PRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAIKQIEKQFGKGA	IMKMDGSQ	QEEN	LEVI	IST	GSL	GLD	L	ALG	VGGL	PRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALAIKQIEKQFGKGA	IMKMDGSQ	QEEN	LEVI	IST	GSL	GLD	L	ALG	VGGL	PRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAIKQIEKQFGKGS	IMKMGDA	EVEP	VQV	VST	GSL	GLD	V	ALG	VGGL	PRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQFGKGSIMRLG	DN	RAMD	VET	IST	GSL	SLD	I	ALG	AGGL	PMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQFGKGSIMRLG	DN	RAMD	VET	IST	GSL	SLD	I	ALG	AGGL	PMGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDEN	KSKALQAALSQIEKQFGKNTVMRLG	DN	TVQA	VEAV	VST	GSL	TL	D	I	ALG	IGGL	PKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1MDDN	KSKALQAALSQIEKQFGKNTVMRLG	DN	TVQA	VEAV	VST	GSL	TL	D	I	ALG	IGGL	PKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDEN	KKRALAAALGQIEKQFGKGAVMRM	GDH	DRQA	IPS	IST	GSL	GLD	I	ALG	IGGL	PKGR	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 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 232354 S100141 RS06385 WP 003181926.1
 NTDB id 115 BSU 16940 NP 389576.2
 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 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 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 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 232354 S100141 RS06385 WP 003181926.1	...	348
NTDB id 115 BSU 16940 NP 389576.2	...	348
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
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NTDB id 1123 OK783 RS03845 WP 003688695.1	...	348
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
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consensus

 non conserved
 similar
 ≥ 50% conserved