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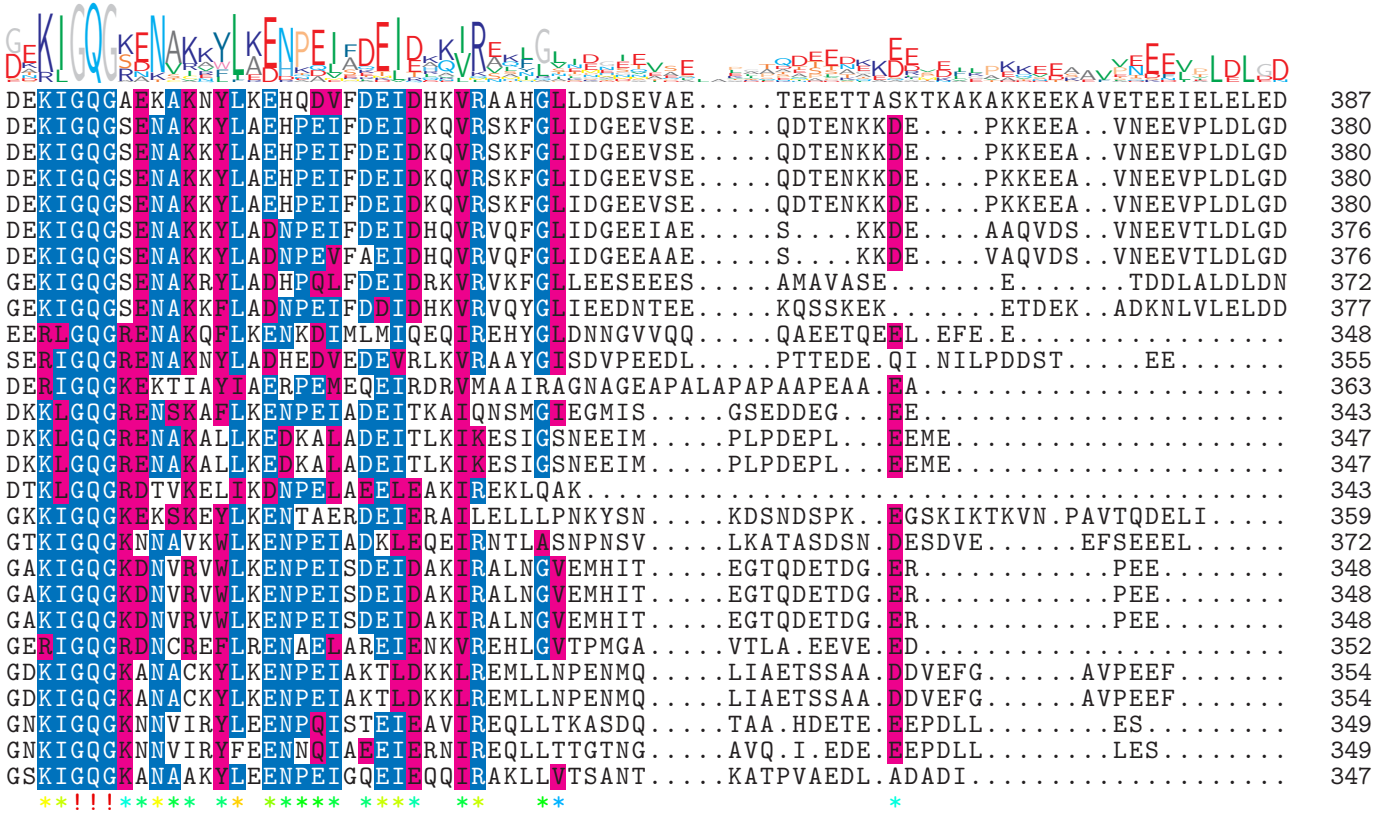
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NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQIEKQ	FGKGSIMKLGEK	.TDTRISTVPSGSLALD	T	ALGIGGYPGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALD	E	ALGVGGYPGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAM	QIEKAFGKGSIMKLGA	E.SKLDVQVVSTGSLSLD	L	ALGVGGIPGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLD	L	ALGIGGVPKGR	59	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE	DKQKALISLAIKQID	KVFGKGALVRLGDK	.QVEKIDSISTGSLGLD	L	ALGIGGVPKGR	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKALISLAIKQID	KVFGKGALVRLGDK	.QVEKIDAISTGSLGLD	L	ALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	IEVIPS	GSGLGLD	ALGVGGYPKGR	68
NTDB id 25496 FTL RS00065 WP 003013734.1	MSKEKALES	ALSQIEKQFGKGA	AIMRLGDQEA	AHDIDVIPS	GIIT	ALDVALGIGGYPKGR	58	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQ	KKQALEAALAQIEKQ	FGKGSIMKLQGT	.EQLDIESVSTGSLGLD	L	ALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEE	NLEVISTGSLGLD	L	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEE	NLEVISTGSLGLD	L	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEE	NLEVISTGSLGLD	L	ALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQVVSTGSLGLD	V	ALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLD	I	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLD	I	ALGAGGLPMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIPSISTGSLGLD	I	ALGIGGLPKGR	59	
consensus		* * *	* * *	* * *	* * *	* * *	* * *	

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKEA	LV	DIMF	GEGISSTGELINIAVEEGIIKKS	GAWFAYN	312				
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEA	AVV	EIMY	GEGISKTGELIKIASDL	DIIKKAGAWYSYK 311				
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEA	AVV	EIMY	GEGISKTGELIKIASDL	DIIKKAGAWYSYK 311				
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEA	AVV	EIMY	GEGISKTGELIKIASDL	DIIKKAGAWYSYK 311				
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEA	AVV	EIMY	GEGISKTGELIKIASDL	DIIKKAGAWYSYK 311				
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEA	FV	EIMY	GEGISKTGELIKIASDL	DIIKKAGAWYSYK 311				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEA	FV	EIMY	GEGISKTGELIKIASDL	DIIKKAGAWYSYK 311				
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKEA	EV	EIMY	GEGISRTGELVKIASDL	DIIQKAGAWFSYN 311				
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDS	IGKETKIKVVKNKVAPPFKEA	FV	EIIY	GEGISRTGELVKIASDL	GIIQKAGAWYSYN 311				
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFRTAEV	D	EIMY	GEGISKEGEIIDLGTEL	DIVQKSGSWYSYE 292				
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKEA	EV	DIMY	GQGISRTGELVDMAVEK	DIINKSGSWYSYG 294				
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTV	KIKTKVKNKVAAPFKE	VELA	LVYGKGF	QDLSDLVGLAADMDI	IKKAGSFYSYG 307			
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEP	IGNRVKIKVVKNKVAPPFRQAEF	D	VMF	GEGLSREGELIDYGV	KLDIVDKSGAWFSYK 294				
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQH	IGNRAKAKVVKNKVAPPFREAEF	D	IMF	GEGISKEGEIIDYGV	KLDIVDKSGAWLSYQ 296				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQH	IGNRAKAKVVKNKVAPPFREAEF	D	IMF	GEGISKEGEIIDYGV	KLDIVDKSGAWLSYQ 296				
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKIKVVKNKVAPPFKSAEF	D	IMY	GEGVSKVGEILD	VATDLDIIQKSGSWFSYQ 307				
NTDB id 25496 FTL RS00065 WP 003013734.1	SVRLEVKKGGG....I.KDGIDV	SGNEIKKVVKNKVAPPFKQADF	E	LIY	GEGISLEAELIDLGAKY	NIIEKSGAWYSYK 292				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGD	DEITGSETKIKVVKNKVAPPFREVQF	D	IMY	GEGISRMNELLILAEANG	FIIKKSGAWFSYD 310				
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NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEEV	LGNETRVKVIKNKVAPPFRQAEF	D	DILY	GEGISWEGELIDIGV	KNDIINKSGAWYSYN 294				
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGDEV	VGNETKIKVVKNKVAPPFREAI	F	DILY	GAGVSREGEIIDLG	VEAKVVEKSGAWYSYN 302				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEV	VGNETRIKVVKNKIAAPFKEANTQ	IMY	GQGFN	REGELIDLG	VKHKMVEKSGAWYSYN 293				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEV	VGNETRIKVVKNKIAAPFKEANTQ	IMY	GQGFN	REGELIDLG	VKHKMVEKSGAWYSYN 293				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKIKVVKNKMAPPFREAI	FQILY	GKGVNQLGELVDLAV	QQNIVQKAGAWYSYQ 293					
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	VGSETKIKVVKNKMAPPFKEAI	FQILY	GKGTNQLGELVDLAV	QQDIVQKAGAWYSYQ 293					
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEV	VGSETRVKKVVKNKVAPPFRQAEFQ	ILY	GKGIYRNGEIIDLG	VQQGLVEKSGAWAYK 293					
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 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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 25496 FTL RS00065 WP 003013734.1
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
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consensus



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		ELELEE	
NTDB id 600 KW2 RS01765 WP 011675413.1			387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE		388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE		388
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE		384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE		384
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED..		378
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED..		383
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 25496 FTL RS00065 WP 003013734.1	.....		359
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			

- X non conserved
- X similar
- X ≥ 50% conserved