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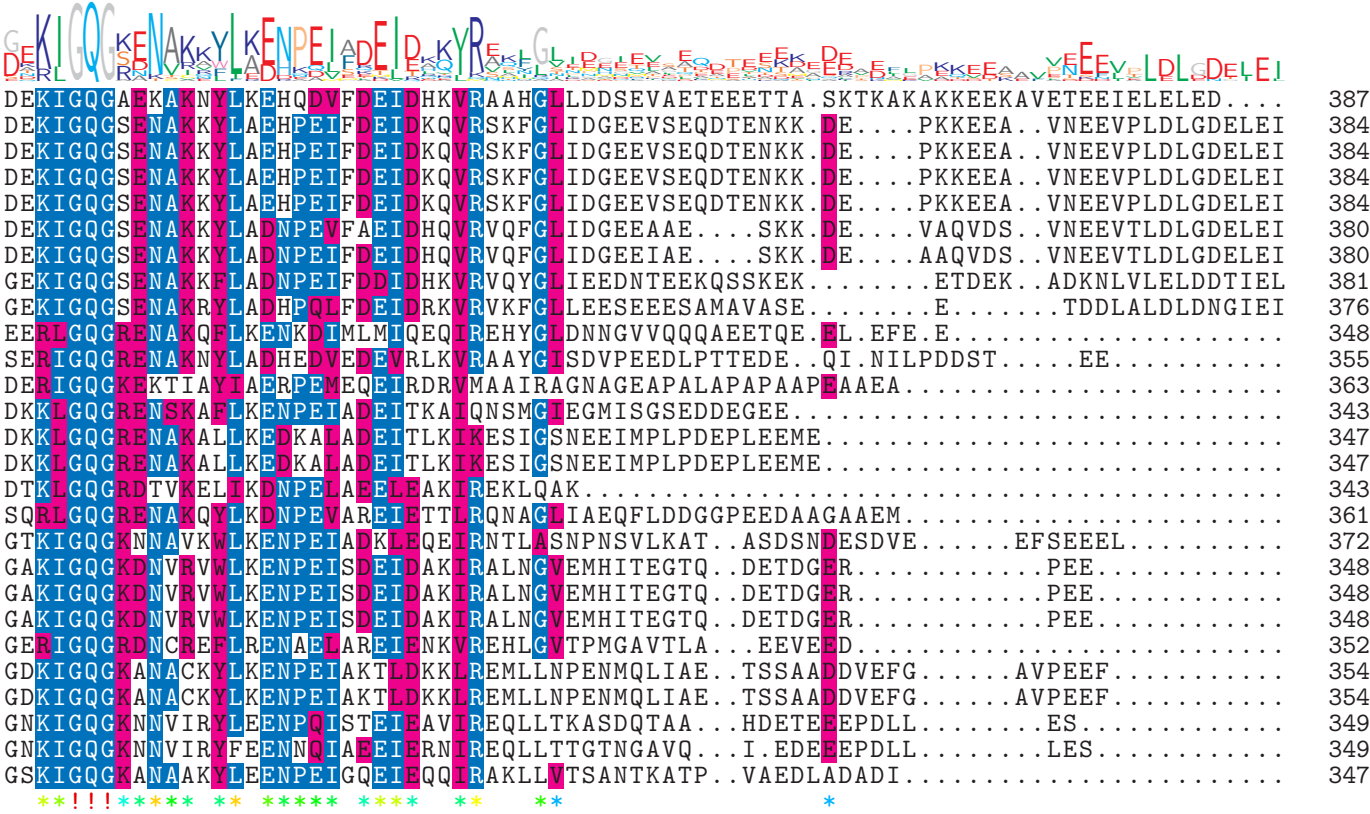
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NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73	
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NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK....KLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73	
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NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVST	VSSGSLALDE	A	LGVG	GYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAM	QIEKAFGKGSIMKLGA	E.SKLDVQV	VSTGSLSLD	I	ALGVGG	IPRGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSALDAALKSLDKT	FGKGTILRLGDK	.EVEQIDS	IGTGSVGLD	I	ALGIGG	VPKGR	59	
NTDB id 1211 C694 RS00795 WP 000963128.1	M..AIDE	DKQKALISLAIKQID	KVFGKGA	LVR	LDGK.QVEKIDS	ISTGSLGLD	I	ALGIGG	VPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	M..AIDE	DKQKALISLAIKQID	KVFGKGA	LVR	LDGK.QVEKIDA	ISTGSLGLD	I	ALGIGG	VPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETT..SPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	EVIPSGSLGLD	I	ALGVGG	YPKGR	68	
NTDB id 263989 C1H24 RS06200 WP 002964332.1	MSQNSLRLVE..DNSV	DKTKALDAALSQIERA	FGKGSIMRLGQNDQV	VEIETVSTGSLSLD	I	ALGVGGL	PKGR	71		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVVKQ..VEPEQ	KKQALEAALAQIEKQ	FGKGSIMKLQQT	.EQLDIES	VSTGSLGLD	I	ALGIGGL	PMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QENLEVISTGSLGLD	I	ALGVGGL	PRGR	60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QENLEVISTGSLGLD	I	ALGVGGL	PRGR	60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QENLEVISTGSLGLD	I	ALGVGGL	PRGR	60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAA..SMSA	EKKALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQV	VSTGSLGLD	I	ALGVGGL	PRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	I	ALGIGGL	PKGR	59	
consensus		*** **	*****	*****	*****	*	*****	*****		

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGITIKKSGAWFAYN	312		
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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDI IKKAGAWYSYK	311		
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDI IKKAGAWYSYK	311		
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDI IKKAGAWYSYK	311		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDI IKKAGAWYSYK	311		
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDI IKKAGAWYSYK	311		
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NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFKVAEVEIMYEGEGISRTGELVKIASDLDI IQKAGAWFSYN	311		
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGGISRTGELVDMAVEKDI INKSGSWYSYG	294		
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEPIGNRVKVVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294		
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296		
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NTDB id 263989 C1H24 RS06200 WP 002964332.1	SVRLDIRRIGS....I.KERDEVVGNQTRVKVVKNKLAPPFKQVEFDIMYGAGVSKVGELVDLGVKAGVVEKSGAWFSYN	305		
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293		
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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
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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
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NTDB id 1124 NGFG RS03960 WP 003688695.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
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consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
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NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
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NTDB id 1211 C694 RS00795 WP 000963128.1		347
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NTDB id 1334 RAOC RS04870 WP 004918236.1		343
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consensus

 non conserved
 similar
 ≥ 50% conserved