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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGA	ERD	KAL	ADAL	AL	IEKD	FGKGS	SLMRLGE	A	ANQKVSV	VSSGSL	ALD	I	ALGAGGY	PKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGSGGY	PKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGSGGY	PKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGSGGY	PKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGSGGY	PKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGSGGY	PKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGSGGY	PKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFG	DERR	KAL	DDAL	KN	IEKD	FGKGA	V	MRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGAGGY	PKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFG	DER	R	KAL	DDAL	KN	IEKD	FGKGA	V	MRLGER	AEQKVQVM	S	SSGSL	ALD	I	ALGAGGY	PKGR	73
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQ	IEKQ	FGKGS	SIM	KLGEK	TDTRI	STV	PSGSL	ALD	TALGI	GGY	P	RGR			58		
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKK	IEKN	F	GKGS	SIMRMGEK	VDTQV	STV	SSGSL	ALDEAL	GVGGY	P	RGR				60		
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKA	TET	AMSQ	IEKA	F	GKGS	SIMKLGA	E	SKLDV	QVVST	GSL	SLDL	ALGVGGI	P	RGR	72		
NTDB id 103670 A2T74 RS16040 WP 009084978.1	MSNTDDKKKALALVLEK	LDKT	YGKGTVM	TLGED	SV	DHSIEV	IPSGSL	GLDL	ALGVGGY	P	RGR					62		
NTDB id 1334 RAO RS04870 WP 004918236.1	MAKT.ETTSPNDDKKKALA	AVLEK	LDKT	YGKGTVM	KLGD	GTVDHN	IEV	IPSGSL	GLDL	ALGVGGY	P	RGR				68		
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKS	LDKT	FGKGTIL	RLGDK	EVEQ	IDS	IGTGSV	GLDL	ALGIGGV	P	RGR					59		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAISLA	IKQ	IDKV	FGKGAL	VRLGDK	QVEK	IDAISTGSL	GLDL	ALGIGGV	P	RGR					61		
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAISLA	IKQ	IDKV	FGKGAL	VRLGDK	QVEK	IDSISTGSL	GLDL	ALGIGGV	P	RGR					61		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV.VKQVEP	EQKKQ	ALEA	ALA	Q	IEKQ	F	GKGS	SIMKL	GQT	EQLD	IESV	STGSL	GLDL	ALGIGGL	P	MGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKS	KALAAALAQ	IEKS	F	GKGAIMKMDGS	Q	Q	Q	EENLEV	ISTGSL	GLDL	ALGVGGL	P	RGR		60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKS	KALAAALAQ	IEKS	F	GKGAIMKMDGS	Q	Q	Q	EENLEV	ISTGSL	GLDL	ALGVGGL	P	RGR		60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKS	KALAAALAQ	IEKS	F	GKGAIMKMDGS	Q	Q	Q	EENLEV	ISTGSL	GLDL	ALGVGGL	P	RGR		60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K.KAASMSAEKQ	KALAAALAQ	IEKQ	F	GKGS	SIMKMGDA	EVEPV	QVVST	GSL	GLD	VALGVGGL	P	RGR			68		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQ	KALAAALGQ	IEKQ	F	GKGS	SIMRLGDN	RAMDVET	ISTGSL	SLDL	I	ALGAGGL	P	MGR			59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQ	KALAAALGQ	IEKQ	F	GKGS	SIMRLGDN	RAMDVET	ISTGSL	SLDL	I	ALGAGGL	P	MGR			59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNK	SALQAALSQ	IEKQ	F	GKNTVM	RLGDN	TVQAVEA	VSTGSL	TL	DL	I	ALGIGGL	P	RGR		59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDDNK	SALQAALSQ	IEKQ	F	GKNTVM	RLGDN	TVQAVEA	VSTGSL	TL	DL	I	ALGIGGL	P	RGR		59		
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKK	RALAAALGQ	IEKQ	F	GKGA	V	MRMGDH	DRQA	IPS	ISTGSL	GLDL	I	ALGIGGL	P	RGR	59		
consensus	***	***	**	***	***	*****	*	*****	*	*****	***	***	***	***	***			

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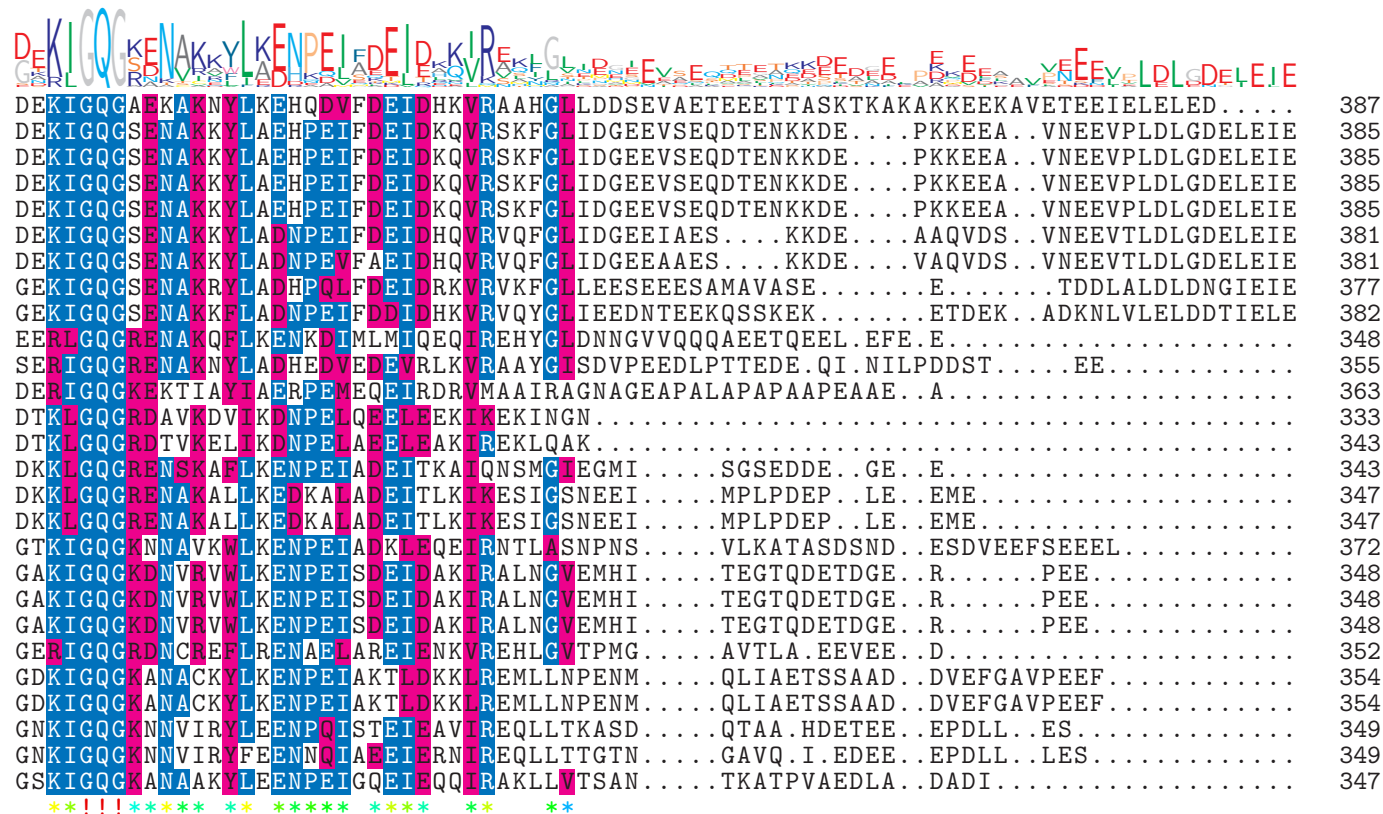
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NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	GKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	311	
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	GKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	311	
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	GKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	311	
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	GKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	311	
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	V	GKETKIKVVKNKVAPPFKAEAFVEIMYEGEGISKTGELLKIASDL	311	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	V	GKETKIKVVKNKVAPPFKAEAFVEIMYEGEGISKTGELLKIASDL	311	
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	I	GKETKIKVVKNKVAPPFKVAEVEIMYEGEGISRTGELVKIASDL	311	
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	I	GKETKIKVVKNKVAPPFKAEAFVEIIMYEGEGISRTGELVKIASDL	311	
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....D	M	GNKTKIKVVKNKVAPPFRTA	292	
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....D	M	GNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEK	294	
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQPT....KVGND	A	ANTVKIKTVKNKVAAPFKEVELALVYGKGF	307	
NTDB id 103670 A2T74 RS16040 WP 009084978.1	SVRIDIRKASAPI....KQGDE	A	VSrvKVKIKVKNKVAPPFKQAEFDIMYEGGVSKVGEILD	297	
NTDB id 1334 RAO RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	I	GNRTKVVKNKVAPPFKSAEFDIMYEGGVSKVGEILD	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVATL.....KQNE	E	PNRVKVKVVKNKVAPPFRQAEFDVFMFGEGLSREGELID	294	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAAL.....KQNE	E	QHGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEI	296	
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIASL.....KQNE	E	QHGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEI	296	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGVV.....KDGDE	I	IGSETKVVKNKVAPPFRVQFDIMYEGEGISRMNELL	310	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGSI.....KKGEE	V	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGEL	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGSI.....KKGEE	V	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGEL	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGSI.....KKGEE	V	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGEL	294	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGSI.....KKGDE	V	GNETKVVKNKVAPPFREAI	302	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGAI.....KEGEE	V	GNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGEL	293	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGAI.....KEGEE	V	GNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGEL	293	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQV.....KEGDE	I	IGSETKVVKNKMAPPFREAI	293	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQV.....KEGDE	I	IGSETKVVKNKMAPPFREAI	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGAV.....KEGDE	V	GVSETRVKNKVAPPFRQAEFQILYGKGIYRNGE	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 103670 A2T74 RS16040 WP 009084978.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
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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 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
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NTDB id 115 BSU 16940 NP 389576.2	...	348
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NTDB id 1313 DR RS12030 WP 010888966.1	...	363
NTDB id 103670 A2T74 RS16040 WP 009084978.1	...	333
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
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consensus

 non conserved
 similar
 ≥ 50% conserved