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NTDB id 73485 FNP73 RS12055 WP 003415121.1MANIDA	EKLKATIESAMS	NIEKQ	FGKGSVMKLG	DH.NVTTMDA	ISTGCLD	LDI	I	ALGIGGV	PKGR	62		
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....	KTNFDDITKKYGA	ERDKALADALAL	IEKD	FGKGSIMRLGEA	.ANQKVS	VVSSGSLA	LDI	I	ALGAGGY	PKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....	PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGSGGY	PKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....	PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGSGGY	PKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....	PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGSGGY	PKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....	PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGSGGY	PKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....	PKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGSGGY	PKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....	PKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGSGGY	PKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....	LKKNEEITKKFGD	ERRKALDDALK	NIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGAGGY	PKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....	IKKTEEITKKFGD	ERKKALDDALK	NIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLA	LDI	I	ALGAGGY	PKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....	MSDRQAALDMALK	QIEKQ	FGKGSIMKLG	EK.TDTRIST	VPVSGSLA	LDI	I	ALGIGGY	PKGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....	MAKDERQAALDA	AALKKIEKN	FGKGSIMRM	GEEK.VDTQV	STVSSGSLA	LDI	I	ALGAGGY	PKGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....	MSKDATKEISAP	TDAKERSKAT	ETAMSQIEKA	FGKGSIMKLG	AE.SKLDV	QVVSTG	SLSLD	I	ALGIVGGI	PKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....	MDDNKRKSLDA	AALKSLDKT	FGKGTILRL	GDK.EVEQ	IDSIGTGS	VGLDL	I	ALGIGGV	PKGR	59	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....	MAIDEDKQKAT	ISLAIKQ	IDKVF	FGKGA	LVRLGDK.QVEK	IDSIST	GSLGLD	I	ALGIGGV	PKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	MAIDEDKQKAT	ISLAIKQ	IDKVF	FGKGA	LVRLGDK.QVEK	IDAIST	GSLGLD	I	ALGIGGV	PKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	MAKT.ETTSPND	DKKKALAAV	LEKLDKT	YGKGTVMK	LGDTVDH	NIEVIPS	GSLGLD	I	ALGIVGGY	PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENK	KSSKNNTV.VKQ	VEPEKQK	QALEA	ALAQIEKQ	FGKGSIMK	LQGT.EQLD	IESV	STGSLGLD	I	ALGIGGL	PKGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....	MSDDKSKALAA	ALAQIEKS	FGKGA	IMKMDGS	QREENLE	VIST	GSLGLD	I	ALGVGGL	PKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....	MSDDKSKALAA	ALAQIEKS	FGKGA	IMKMDGS	QREENLE	VIST	GSLGLD	I	ALGVGGL	PKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....	MSDDKSKALAA	ALAQIEKS	FGKGA	IMKMDGS	QREENLE	VIST	GSLGLD	I	ALGVGGL	PKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....	K.KAASMSA	EKQKALAA	ALAQIEKQ	FGKGSIMK	MGDA.EVEP	VQVST	GSLGLD	I	ALGVGGL	PKGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....	MDENKQKALAA	ALGQIEKQ	FGKGSIM	RLGDN.RAMD	VETIST	GSLSLD	I	ALGAGGL	PKGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	MDENKQKALAA	ALGQIEKQ	FGKGSIM	RLGDN.RAMD	VETIST	GSLSLD	I	ALGAGGL	PKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	MDENKKRALAA	ALGQIEKQ	FGKGA	VMRMGDH.DRQA	IPSI	STGSL	GLDI	I	ALGIGGL	PKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	MDDNKSKALQA	AALSQIEKQ	FGKNTVM	RLGDN.TVQ	AVEAV	STGSL	TLDI	I	ALGIGGL	PKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQA	AALSQIEKQ	FGKNTVM	RLGDN.TVQ	AVEAV	STGSL	TLDI	I	ALGIGGL	PKGR	59	
consensus			**	**	**	***	***!	***!	***!	***!	***!	***!	

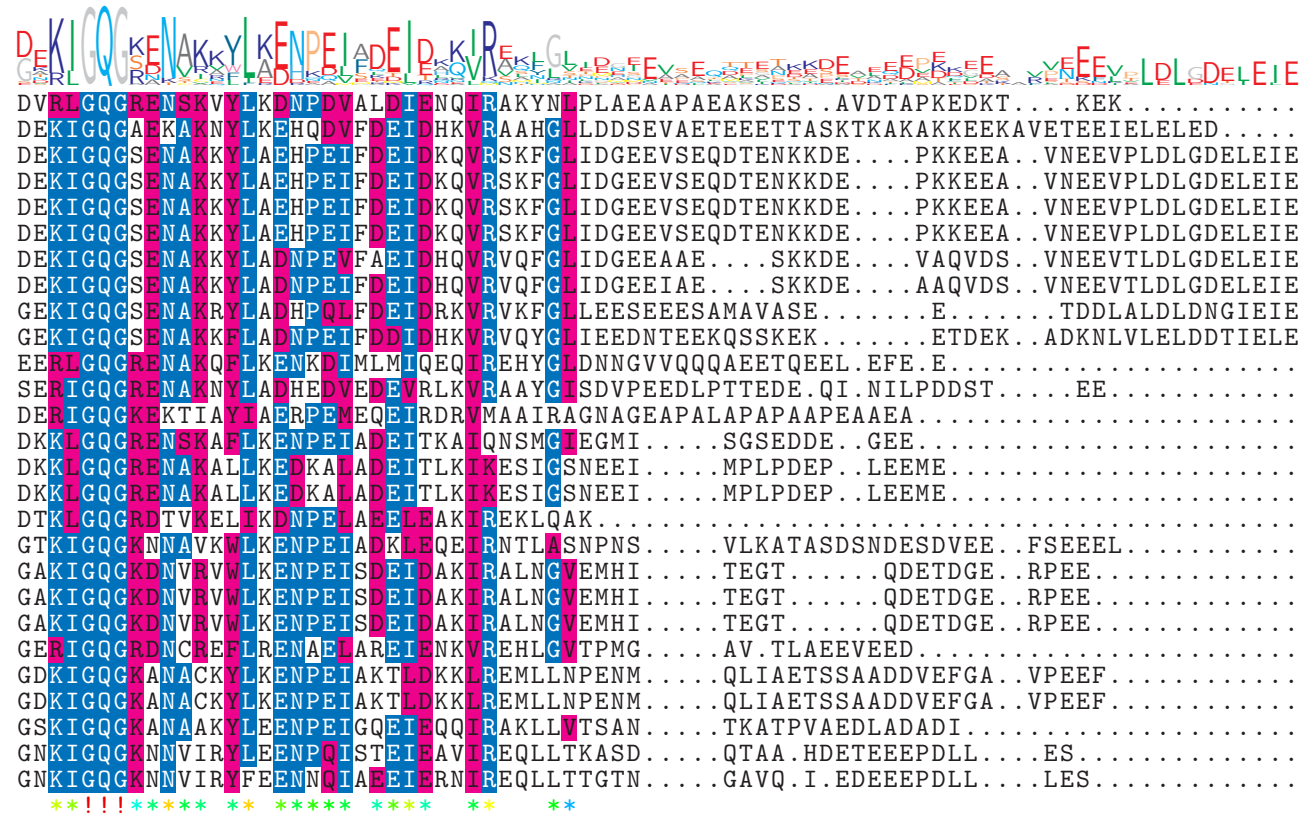
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NTDB id 73485 FNP73 RS12055 WP 003415121.1	SVRLD	IRRIDSIKQGDSI	IGNRTRVKVMK	NKVAPPFRQAEFD	IMYNEGISRTGNVLDVGVKEEIVQKSGAWFSYG	296				
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLD	VRGSTKIEEGS	.GDNKTQ	IGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGI	IKKSGAWFAYN	312					
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLD	VRGNTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311					
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLD	VRGNTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311					
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLD	VRGNTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311					
NTDB id 159 SP RS09750 WP 001085462.1	SVRLD	VRGNTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLD	VRGSTQIKGTG	.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311					
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLD	VRGSTQIKGTG	.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311					
NTDB id 453 Spy49 1753c ACI62003.1	SVRLD	VRGTTQIKGTG	.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDI	IKKAGAWFSYN	311					
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLD	VRGNTQIKGTG	.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDLGI	IKKAGAWYSYN	311					
NTDB id 115 BSU 16940 NP 389576.2	SVRL	EVRRAEQLKQGN	....DM	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEIIDLGTEL	DIVQKSGSWYSYE	292			
NTDB id 625 LCA RS02525 WP 011374196.1	TVRL	EVRRAEIKNGT	....DM	IGNRARIKVVKNKVAPPFKVAEVDIMYGG	GISRTGELVDMAVEKDI	INKSGSWYSYG	294			
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLD	VRRKIGQ	....PTKVGND	AVANTVKIKTVKNKVAAPFKEVELALVY	GKGFQDQLSDLVGLAADMDI	IKKAGSFYSYG	307			
NTDB id 1245 Cj1673c YP 002345041.1	SVRLD	VRRKIVAT	....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDV	MFGEGLSREGELIDYGVKLDI	VDKSGAWFSYK	294			
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRI	DIRRIAS	....L.KQNEQH	IGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEIIDYGVKLDI	VDKSGAWLSYQ	296			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRI	DIRRIAA	....L.KQNEQH	IGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEIIDYGVKLDI	VDKSGAWLSYQ	296			
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRI	DIRRSLSDTGKIKDKSGEV		IGNRTKVVKNKVAPPFKSAEFD	IMYGEGVSKVGEILDVATDLDI	IQKSGSWFSYQ	307				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLD	IRRCGV	....V.KGDDEI	IGSETKVVKNKVAPPFR	EVQFDIMYGEGISRMNELLILAEANGFI	IKKSGAWFSYD	310			
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLD	IRRTGS	....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294			
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLD	IRRTGS	....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294			
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLD	IRRTGS	....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294			
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLD	IRRIGS	....I.KKGEV	GNETKVVKNKVAPPFR	EAFDILYGAGVSREGEIIDLGVEAKV	VEKSGAWYSYN	302			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLD	IRRTGA	....I.KEGEV	GNETRIKVVKNKIAAPFKEANTQIMYGG	GFNREGELIDLGVKHKMVEKSGAWYSYN	293				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLD	IRRTGA	....I.KEGEV	GNETRIKVVKNKIAAPFKEANTQIMYGG	GFNREGELIDLGVKHKMVEKSGAWYSYN	293				
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLD	IRRTGA	....V.KEGDEV	VGSETRVVKNKVAPPFRQAEFQ	IILYGKGIYRNGEIIDLGVQQGL	VEKSGAWAYK	293			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLD	IRRIGQ	....V.KEGDEI	IGSETKVVKNKMAPPFR	EAFQILYGKGVNQLGELVDLAVQQN	IVQKAGAWYSYQ	293			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLD	IRRIGQV.KEGDEI	IGSETKVVKNKMAPPFR	EAFQILYGKGTNQLGELVDLAVQQN	IVQKAGAWYSYQ	293				
consensus		*!!**!*		*	**	*****!*****	****	****	***	***	! !*****!

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NTDB id 73485 FNP73 RS12055 WP 003415121.1
 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 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 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
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NTDB id 73485 FNP73 RS12055 WP 003415121.1	...	359
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 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	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
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NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343
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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349

consensus

 non conserved
 similar
 ≥ 50% conserved