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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK....KKTNFDDITKKYGA	ERDKALADALAL	IEKD	FGKGSIMRLGE	A	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR			73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR			73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR			73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR			73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR			73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR			73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK....KLKKNEEITKKKFG	DERRKALDDALKN	IEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR			73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK....RIKKTEEITKKKFG	DERRKALDDALKN	IEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR			73
NTDB id 406556 GPK32 RS10985 WP 070085303.1	.....MADARKAALDTALKK	IEKN	FGKGAIMRMGDA	.AQTTTISTISSGSLALDD	ALGVGGYPRGR				59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALDE	ALGVGGYPRGR				60
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQ	FGKGSIMKLGK	.TDTRISTVPSGSLALDT	ALGIGGYPRGR				58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	ERSKATETAMSQ	IEKA	FGKGSIMKLGAE	.SKLDVQVSTGSLSLDL	ALGVGGIPRGR			72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKT	FGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR				59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLAIKQ	IDKV	FGKGAIVRLGDK	.QVEKIDISTGSLGLDL	ALGIGGVPKGR				61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLAIKQ	IDKV	FGKGAIVRLGDK	.QVEKIDISTGSLGLDL	ALGIGGVPKGR				61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSN	DDKKKALAAVLEK	LDKT	YGKGTVMKLG	DTVDHNI	IEVIPS	SGSLGLDL	ALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEP	EKKKQALEAALA	IEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGLDL	ALGIGGLPMGR			76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALA	IEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR				60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALA	IEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR				60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALA	IEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR				60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMS	AEKQKALAAALA	IEKQ	FGKGSIMKMGDA	.EVEPVQVSTGSLGLD	VALGVGGLPRGR			68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR				59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR				59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGQ	IEKQ	FGKGAVMRMGDH	.DRQAIPSI	STGSLGLDI	ALGIGGLPKGR			59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS	KALQAALSQ	IEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR			59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENK	SKALQAALSQ	IEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR			59
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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGK	ITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	TKKSGAWFAYN	312		
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYEGISRTGELVKIASDL	GIIQKAGAWFSYN	311		
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDS	IGKETKIKVVKNKVAPPFKEAFVEIIMYGEGISRTGELVKIASDL	GIIQKAGAWYSYN	311		
NTDB id 406556	GPK32	RS10985	WP 070085303.1	TIRLEVRRAEQIKEGT.....NI	IGNRVRIKVVKNKVAPPFKRAEVDIMYGGISQTGEIVDMAAEK	DIVKKSGSWYSYG	293		
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAEETIKNGT.....DM	IGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEK	DIINKSGSWYSYG	294		
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....DV	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGETIDLGTELDIVQKKS	GSWYSYE	292	
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKEVELALVYGGKGFQDLS	DLVGLAADMDI	IKKAGSFYSYG	307	
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....L.KQNEEP	IGNRVKIKVVKNKVAPPFRQAEFDV	MFGEGLSREGELIDYGVKLDIVDKS	GAWFSYK	294	
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....L.KQNEQH	IGNRAKIKVVKNKVAPPFR	EAFFDIMFGEGISKEGETIDYGVKLDIVDKS	GAWLSYQ	296	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....L.KQNEQH	IGNRAKIKVVKNKVAPPFR	EAFFDIMFGEGISKEGETIDYGVKLDIVDKS	GAWLSYQ	296	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKIKVVKNKVAPPFKSAEFD	IMYGGVSKVGEILDVATDL	DIQKKS	GSWFSYQ	307
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....V.KGDDEI	IGSETKIKVVKNKVAPPFR	EVQFDIMYGGISRMNELLILAEANGFI	IKKSGAWFSYD	310	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFD	DILYGGISWEGELIDIGVKN	DIINKSGAWYSYN	294	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFD	DILYGGISWEGELIDIGVKN	DIINKSGAWYSYN	294	
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFD	DILYGGISWEGELIDIGVKN	DIINKSGAWYSYN	294	
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....I.KKGEV	GNETKIKVVKNKVAPPFR	EAIFDILYGGISWEGELIDIGVKN	DIINKSGAWYSYN	302	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....I.KEGEV	GNETRIKVVKNKIAAPFKEANTQIMYGG	GFNREGELIDLGVKHKMVEK	SGAWYSYN	293	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....I.KEGEV	GNETRIKVVKNKIAAPFKEANTQIMYGG	GFNREGELIDLGVKHKMVEK	SGAWYSYN	293	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....V.KEGDEV	GSSETRVKNKVAPPFRQAEFQILYGG	KIYRNGETIDLGVQQGLVEK	SGAWAYK	293	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKIKVVKNKMAPPFREAI	FQILYGGKVNQLGELVDLAVQQ	NIVQKAGAWYSYQ	293	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKIKVVKNKMAPPFREAI	FQILYGGKVNQLGELVDLAVQQ	NIVQKAGAWYSYQ	293	

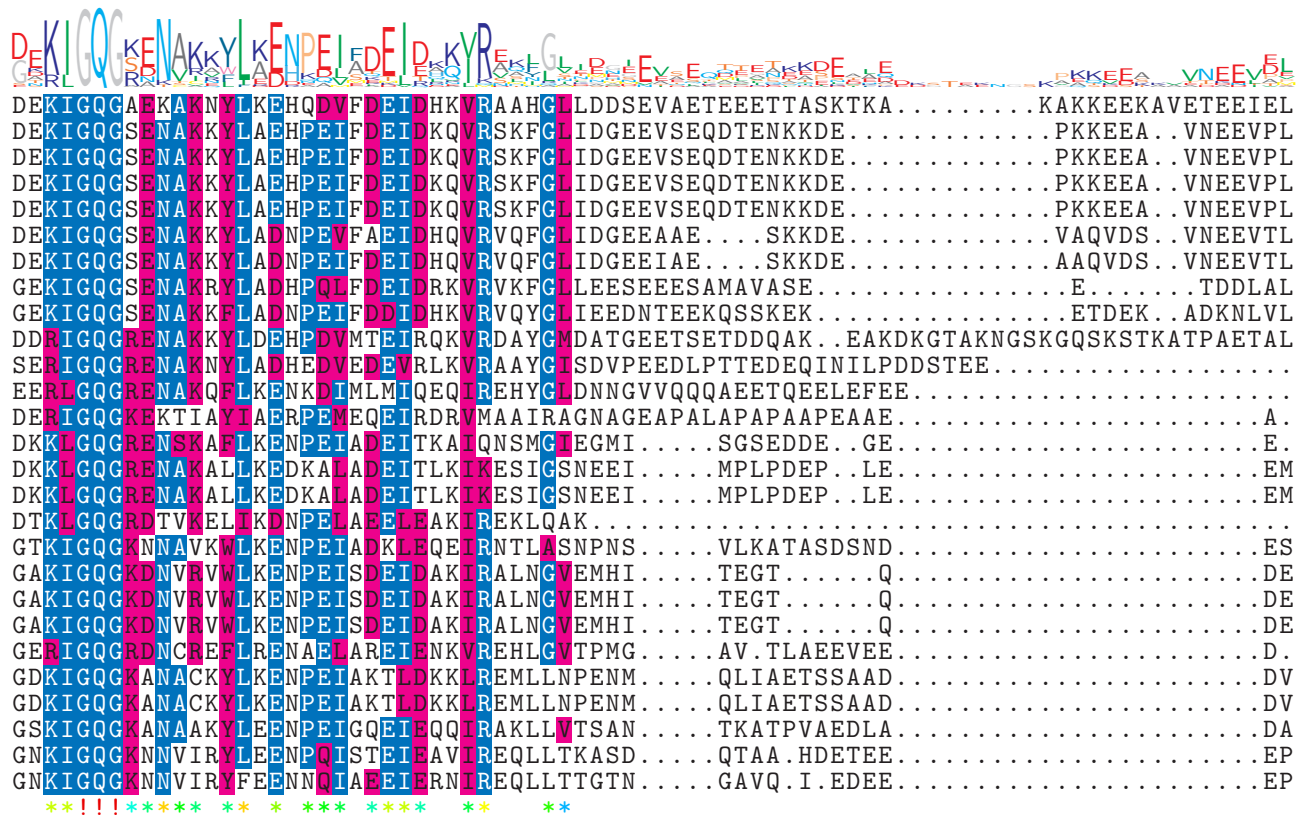
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NTDB id 600 KW2 RS01765 WP 011675413.1  
 NTDB id 269 KZH43 RS08665 WP 001085462.1  
 NTDB id 228 SPD RS09265 WP 001085462.1  
 NTDB id 194 SPR RS08825 WP 001085462.1  
 NTDB id 159 SP RS09750 WP 001085462.1  
 NTDB id 527 SMSK321 RS11065 WP 001085454.1  
 NTDB id 499 SM12261 RS08315 WP 078228268.1  
 NTDB id 453 Spy49 1753c ACI62003.1  
 NTDB id 408 SMU RS09530 WP 002262392.1  
 NTDB id 406556 GPK32 RS10985 WP 070085303.1  
 NTDB id 625 LCA RS02525 WP 011374196.1  
 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 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	Accession	Sequence	Score
600	KW2 RS01765 WP 011675413.1	ELED.....	387
269	KZH43 RS08665 WP 001085462.1	DLGDELEIEIEE	388
228	SPD RS09265 WP 001085462.1	DLGDELEIEIEE	388
194	SPR RS08825 WP 001085462.1	DLGDELEIEIEE	388
159	SP RS09750 WP 001085462.1	DLGDELEIEIEE	388
527	SMSK321 RS11065 WP 001085454.1	DLGDELEIEIEE	384
499	SM12261 RS08315 WP 078228268.1	DLGDELEIEIEE	384
453	Spy49 1753c ACI62003.1	DLDNIEIEED..	378
408	SMU RS09530 WP 002262392.1	ELDDTIELED..	383
406556	GPK32 RS10985 WP 070085303.1	DLGDQPTEK...	380
625	LCA RS02525 WP 011374196.1	.....	355
115	BSU 16940 NP 389576.2	.....	348
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	E.....	347
1214	NCTC11637 00359 SQJ03206.1	E.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	DVEEFSEEEL..	372
1130	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1124	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1123	OK783 RS03845 WP 003688695.1	TDGERPEE....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	EFGAVPEEF...	354
1142	GTF74 RS11550 WP 000344154.1	EFGAVPEEF...	354
1205	PSJM300 05545 AFN77183.1	DI.....	347
1022	ACIAD RS06390 WP 004925639.1	DLL..ES.....	349
1074	ABD1 RS10195 WP 000344167.1	DLL..LES.....	349
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 similar  
 ≥ 50% conserved