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NTDB id 600	KW2	RS01765	WP	011675413.1	MATKK....KTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGER	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269	KZH43	RS08665	WP	001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228	SPD	RS09265	WP	001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194	SPR	RS08825	WP	001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159	SP	RS09750	WP	001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499	SM12261	RS08315	WP	078228268.1	.MAKK....PKKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527	SMSK321	RS11065	WP	001085454.1	.MAKK....PKKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYPKGR	73	
NTDB id 408	SMU	RS09530	WP	002262392.1	.MAKR....IKKTEEITKKKFG	DERKKALDDALKN	IEKDFGKGA	VMSGSLALDI	ALGAGGYPKGR	73		
NTDB id 453	Spy49	1753c	ACI62003.1		.MAKK....LKKNEEITKKKFG	DERRKALDDALKN	IEKDFGKGA	VMSGSLALDI	ALGAGGYPKGR	73		
NTDB id 115	BSU	16940	NP	389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	IEK.TDTR	ISTVPSGSLALDI	TALGIGGYPKGR	58	
NTDB id 625	LCA	RS02525	WP	011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRMG	IEK.VDTQ	VSTVSSGSLALDE	ALGVGGYPKGR	60	
NTDB id 1313	DR	RS12030	WP	010888966.1	.....MSKDATKEISAPTDAK	ERSKATETAMSQ	IEKAFGKGSIMKLG	AE.SKLD	VQVSTGSLSLDL	ALGVGGIPKGR	72
NTDB id 1245	Cj1673c	YP	002345041.1		.....MDNKRKSLDAALKS	LDKTFGKGTILRLG	DK.EVEQ	IDSIGTGSVGLDL	ALGIGGVPKGR	59	
NTDB id 1211	C694	RS00795	WP	000963128.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGA	LVRGDK.QVEK	IDSISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1214	NCTC11637	00359	SQJ03206.1		.....MAIDEDKQKATISLA	IKQIDKVF	FGKGA	LVRGDK.QVEK	IDAISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1334	RAOC	RS04870	WP	004918236.1	.....MAK..TETTSPP	DDKKKALAAVLEK	LDKTYGKGTVMKLG	DTVDHNI	IEVIPSGSLGLDL	ALGVGGYPKGR	68
NTDB id 1130	NGFG	RS03960	WP	003688695.1	.....MSDDKSKALAAALAQ	IEKSF	FGKGA	IMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPKGR	60
NTDB id 1124	NGFG	RS03960	WP	003688695.1	.....MSDDKSKALAAALAQ	IEKSF	FGKGA	IMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPKGR	60
NTDB id 1123	OK783	RS03845	WP	003688695.1	.....MSDDKSKALAAALAQ	IEKSF	FGKGA	IMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPKGR	60
NTDB id 70888	K6J61	RS02115	WP	005654959.1	.....MATQEEKQKALAAALG	QIEKQFGKGSIMKLG	DT.KTLD	VESISTGSLGLD	VALGIGGLPKGR	61	
NTDB id 1389	A4U84	RS07560	WP	021112712.1	.MAENKKS	SKNNT.VVKQVEP	EQQKQALEA	ALAQIEKQFGKGSIMKLG	QT.EQLD	IESVSTGSLGLDL	ALGIGGLPKGR	76
NTDB id 1427	RS	RS02760	WP	011000510.1	.ME.....DG..KKAASMSA	EKQKALAAALAQ	IEKQFGKGSIMKMG	DA.EVEP	VQVSTGSLGLD	VALGVGGLPKGR	68	
NTDB id 1165	A1552VC	RS01565	WP	000344154.1	.....MDENKQKALAAALG	QIEKQFGKGSIMRLG	DN.RAMD	VETISTGSLSLDI	ALGAGGLPKGR	59	
NTDB id 1142	GTF74	RS11550	WP	000344154.1	.....MDENKQKALAAALG	QIEKQFGKGSIMRLG	DN.RAMD	VETISTGSLSLDI	ALGAGGLPKGR	59	
NTDB id 1205	PSJM300	05545	AFN77183.1	MDENKQRALAAALG	QIEKQFGKGA	VMRMGD	H.DRQA	IPSI	TGSLGLDI	ALGIGGLPKGR	59
NTDB id 1022	ACIAD	RS06390	WP	004925639.1	.....MDDNKSKALQAALS	QIEKQFGKNTVMRLG	DN.TVQ	AVEAVSTGSLT	LDI	ALGIGGLPKGR	59
NTDB id 1074	ABD1	RS10195	WP	000344167.1MDENKSKALQAALS	QIEKQFGKNTVMRLG	DN.TVQ	AVEAVSTGSLT	LDI	ALGIGGLPKGR	59	
consensus					***	***	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!	

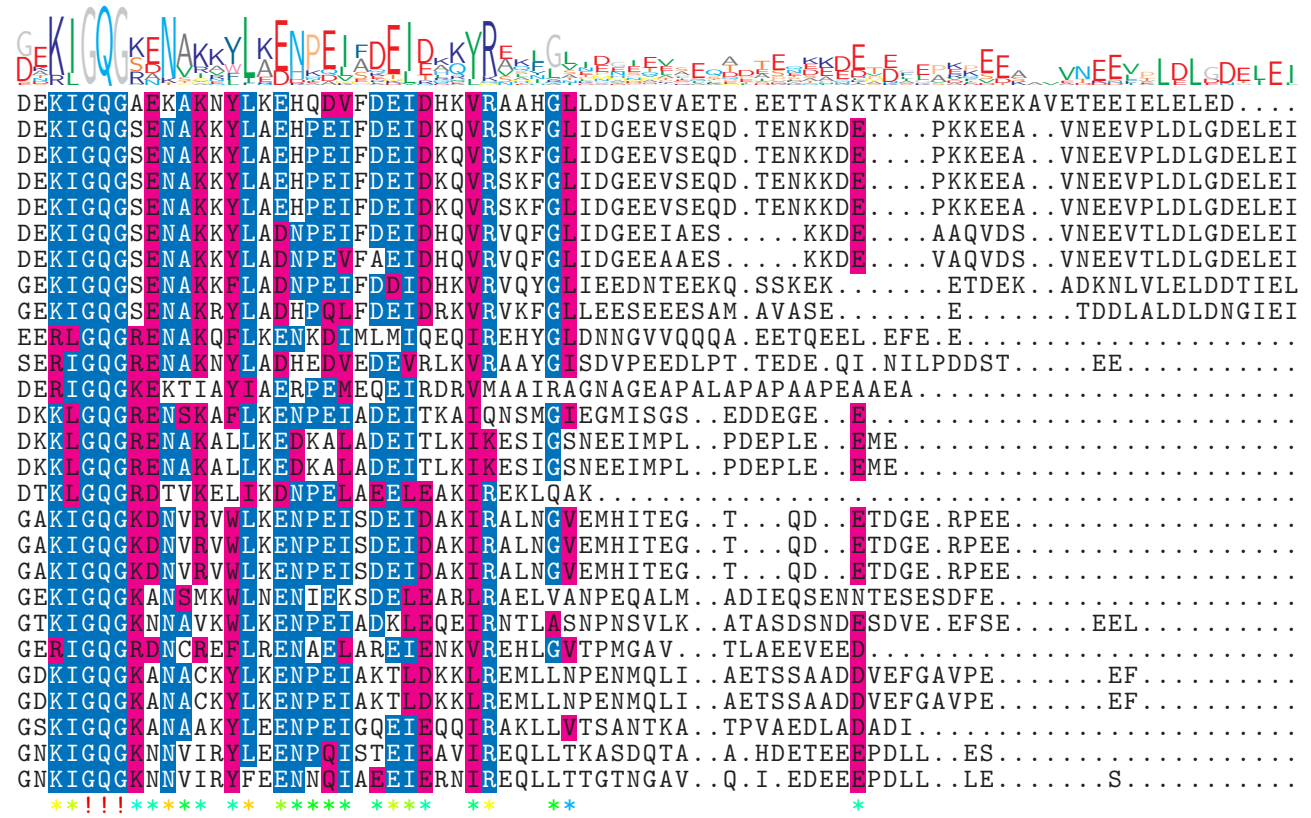
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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGK	ITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	TKKSGAWFAYN	312	
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSYK	311	
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSYK	311	
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSYK	311	
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSYK	311	
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSYK	311	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSYK	311	
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDLGI	IQKAGAWYSYN	311	
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKEAFVEIMYGEGISRTGELVKIASDLDI	IQKAGAWFSYN	311	
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....D	MGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEITDLGTELDIV	QKSGSWYSYE	292	
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....D	MGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDI	INKSGSWYSYG	294	
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTKVKNKVAAPFKEVELALVYGGKGFQDLSDLVGLAADMDI	TKKAGSFYSYG	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT....L.KQN	EEPIGNRVKIKVVKNKVAPPFRQAEFDVDFGEGLSREGELIDYGVKLDIV	DKSGAWFSYK	294	
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNE	QHIGNRAKIKVVKNKVAPPFRQAEFDIMFGEGISKEGEITDYGVKLDIV	DKSGAWLSYQ	296	
NTDB id 1214 NCTC11637 00359	SQJ03206.1	SVRIDIRRIAA....L.KQNE	QHIGNRAKIKVVKNKVAPPFRQAEFDIMFGEGISKEGEITDYGVKLDIV	DKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDI	IQKSGSWFSYQ	307	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 70888 K6J61 RS02115 WP 005654959.1	SVRLDIRRTGS....V.KDG	ENIIGNETRVKVVKNKLAAPFRQVDFQILYEGEGISKAGELLELGVKHK	LVEKSGAWYSYN	295	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDG	DEIIGSETKVVVKNKVAPPFRQAEFDIMYGEGISRMNELLILAEANGFI	KKSGAWFSYD	310	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKG	DEVVGNETKVVVKNKVAPPFRQAEFDILYGAGVSREGEITDLGVEAK	VVEKSGAWYSYN	302	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGVKHK	MVEKSGAWYSYN	293	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGVKHK	MVEKSGAWYSYN	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGNSETRVVKNKVAPPFRQAEFQILYGKGIYRNGETIDLGVQQGL	VVEKSGAWAYK	293	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKVVVKNKMAPPFRQAEFQILYGKGVNQLGELVDLAVQQN	IVQKAGAWYSYQ	293	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKVVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQ	DIVQKAGAWYSYQ	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 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
 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 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 70888 K6J61 RS02115 WP 005654959.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 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
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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
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
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NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
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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
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consensus

 non conserved
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 ≥ 50% conserved