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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGERAE	.QKVS	VSSGSLALDI	ALGAGGYPKGR	74					
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLI	IEKDFGKGSIMRLGERAE	.QKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLI	IEKDFGKGSIMRLGERAE	.QKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLI	IEKDFGKGSIMRLGERAE	.QKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLI	IEKDFGKGSIMRLGERAE	.QKVQVMSSGSLALDI	ALGSGGYPKGR	73					
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NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLI	IEKDFGKGSIMRLGERAE	.QKVQVMSSGSLALDI	ALGSGGYPKGR	73					
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGE	DERKALDDALKN	IEKDFGKGAVMRLGERAE	.QKVQVMSSGSLALDI	ALGAGGYPKGR	73					
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGE	DERKALDDALKN	IEKDFGKGAVMRLGERAE	.QKVQVMSSGSLALDI	ALGAGGYPKGR	73					
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	EKTD	.TRISTVPSGSLALDI	TALGIGGYPRGR	58				
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRMG	EKVD	.TQVSTVSSGSLALDE	ALGVGGYPRGR	60				
NTDB id 1313 DR RS12030 WP 010888966.1MSKDATKEISAPTD	AKERSKATETAM	SQIEKAFGKGSIMKLG	AESK	.LDVQVVSTGSLSLDL	ALGVGGIPRGR	72				
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRL	GDKEV	.EQIDSIGTGSVGLDL	ALGIGGVPRGR	59				
NTDB id 1214 NCTC11637 00359 SQJ03206.1MAIDEDKQKATISLA	IKQIDKVF	FGKGA	LVR	LDKQV	.EKIDAISTGSLGLDL	ALGIGGVPRGR	61			
NTDB id 1211 C694 RS00795 WP 000963128.1MAIDEDKQKATISLA	IKQIDKVF	FGKGA	LVR	LDKQV	.EKIDSISTGSLGLDL	ALGIGGVPRGR	61			
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTSPN	DDKKKALAAVLEK	LDKTYGKGTVMKLG	GD	TVDHNI	IEVIPS	SGSLGLDL	ALGVGGYPRGR	68		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEP	EQKKQALEAALA	QIEKQFGKGSIMKLG	QTEQ	.LDIESVSTGSLGLDL	ALGIGGLPMGR	76			
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAAALA	QIEKSFGKGA	AIMKMDGS	Q	Q	Q	Q	EENLEV	ISTGSLGLDL	ALGVGGLPRGR	60
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NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMS	AEKQKALAAALA	QIEKQFGKGSIMKMG	DAEV	.EPVQVVSTGSLGLD	VALGVGGLPRGR	68				
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NTDB id 1142 GTF74 RS11550 WP 000344154.1MDENKQKALAAALG	QIEKQFGKGSIMRLG	DNRA	.MDVETISTGSLSLDI	ALGAGGLPMGR	59					
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALS	QIEKQFGKNTVMRLG	DNNTV	.QAVEAVSTGSLTLDI	ALGIGGLPKGR	59				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALS	QIEKQFGKNTVMRLG	DNNTV	.QAVEAVSTGSLTLDI	ALGIGGLPKGR	59				
NTDB id 183968 A9E78 RS08765 WP 010947527.1	.....MEENKQKALSAALS	QIERQFGKGSVMRMG	DSTVSRDIEA	ISTGSLGLDI	ALGIGGLPKGR	60				
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALG	QIEKQFGKGAVMRMG	DHDR	.QAIPSI	ISTGSLGLDI	ALGIGGLPKGR	59				
consensus	*** ** *	*****	!!!!*****	*	****!!*!!*!!*!!	!!*!!					

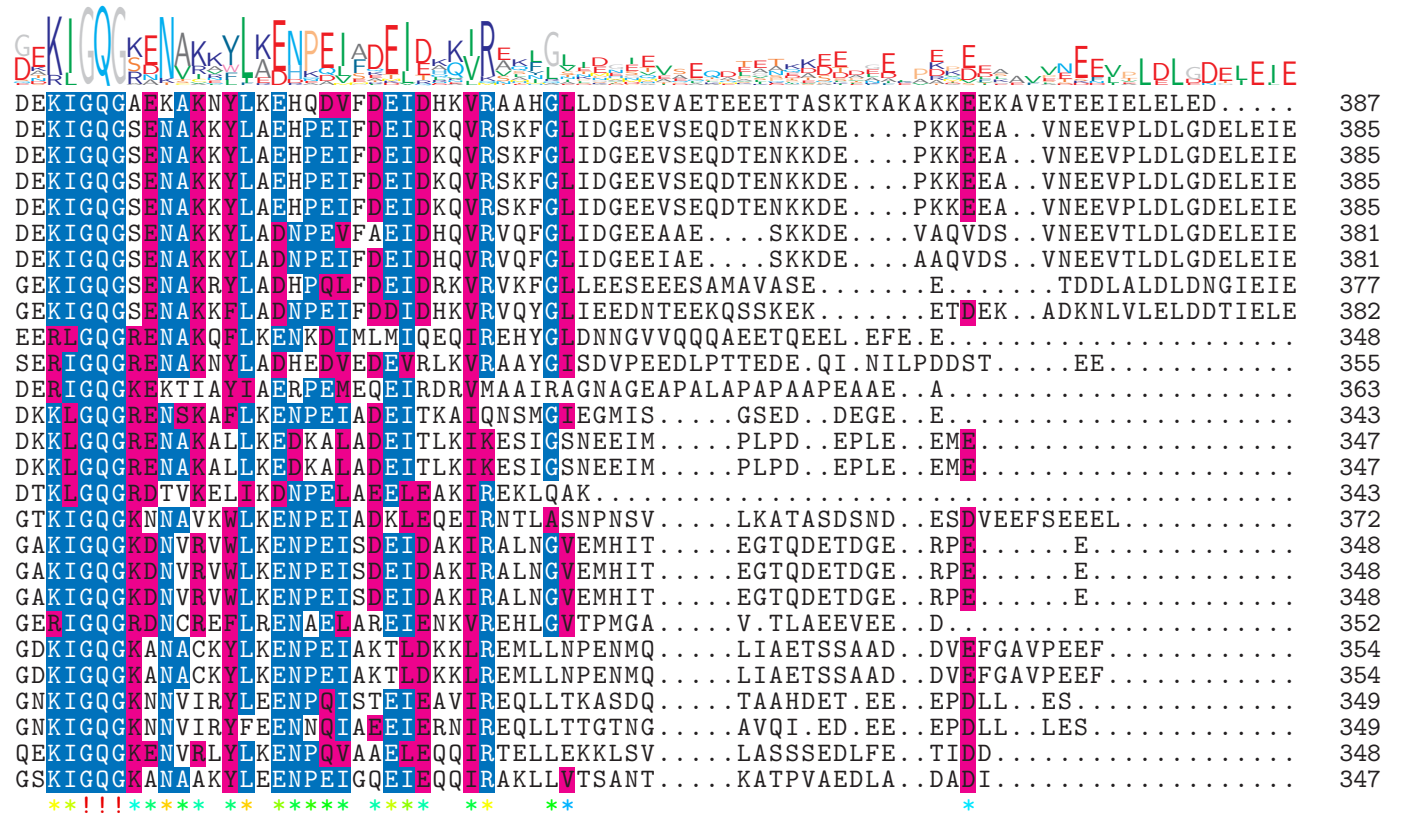
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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	D	I	IKKAGAWYSYK	311		
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	D	I	IKKAGAWYSYK	311		
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	D	I	IKKAGAWYSYK	311		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	D	I	IKKAGAWYSYK	311		
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	D	I	IKKAGAWYSYK	311		
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYEGISRTGELVKIASDL	G	I	IKKAGAWFSYN	311		
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDS	IGKETKIKVVKNKVAPPFKEAFVEIIMYGEGISRTGELVKIASDL	G	I	IKKAGAWYSYN	311		
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEI	I	DLGTELDIVQKSGSWYSYE	292		
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDM	AVEKDI	I	INKSGSWYSYG	294		
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQN	EPIGNRVKIKVVKNKVAPPFR	QAEFDVMFGEGLSREGEL	IDYGV	KLDIVDKSGAWFSYK	294		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNE	QHIGNRAKIKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGV	KLDIVDKSGAWLSYQ	296		
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNE	QHIGNRAKIKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGV	KLDIVDKSGAWLSYQ	296		
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKS	GEVIGNRTKIKVVKNKVAPPFK	SAEFDIMYGEGVSKVGEILD	VATDL	DIIQKSGSWFSYQ	307		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDG	DEIIGSETKIKVVKNKVAPPFR	EVQFDIMYGEGISRMNELL	ILAE	ANGFIKKSGAWFSYD	310		
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFD	DILY	GEGISWEGELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFD	DILY	GEGISWEGELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFD	DILY	GEGISWEGELIDIGVKNDI	INKSGAWYSYN	294	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPF	KEANTQIMYGGGFNREGEL	IDL	GVKHKMVEKSGAWYSYN	293		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPF	KEANTQIMYGGGFNREGEL	IDL	GVKHKMVEKSGAWYSYN	293		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPPF	REAEIFQILY	GKGNQLGELVDLAV	QQNIVQKAGAWYSYQ	293		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPPF	REAEIFQILY	GKGNQLGELVDLAV	QQDIVQKAGAWYSYQ	293		
NTDB id 183968 A9E78 RS08765 WP 010947527.1	SVRLDIRRIGS....I.KKG	EELGSETRVKVVKNKVAPPFK	MTEFDILY	NEGISRESEI	INL	GVQLNLIKSGAWYSYK	294	
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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 115 BSU 16940 NP 389576.2
 NTDB id 625 LCA RS02525 WP 011374196.1
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 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
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 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
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 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 183968 A9E78 RS08765 WP 010947527.1
 NTDB id 1205 PSJM300 05545 AFN77183.1
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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
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consensus

 non conserved
 similar
 ≥ 50% conserved