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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.A.NQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGEERDKALDDALKNIEKD FGKGVAVMLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGEERDKALDDALKNIEKD FGKGVAVMLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSI EKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKT YGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV.VKQVEPEQKKQALEAALAI EKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAI EKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAI EKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAI EKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAI EKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 50436 HSX14 RS23050 WP 111261759.1	.....MDENKRRALAAALGQIEKQFGKGVAVMRMGDH.DRQAIPAI STGSLGLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQIEKQFGKGVAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR	59

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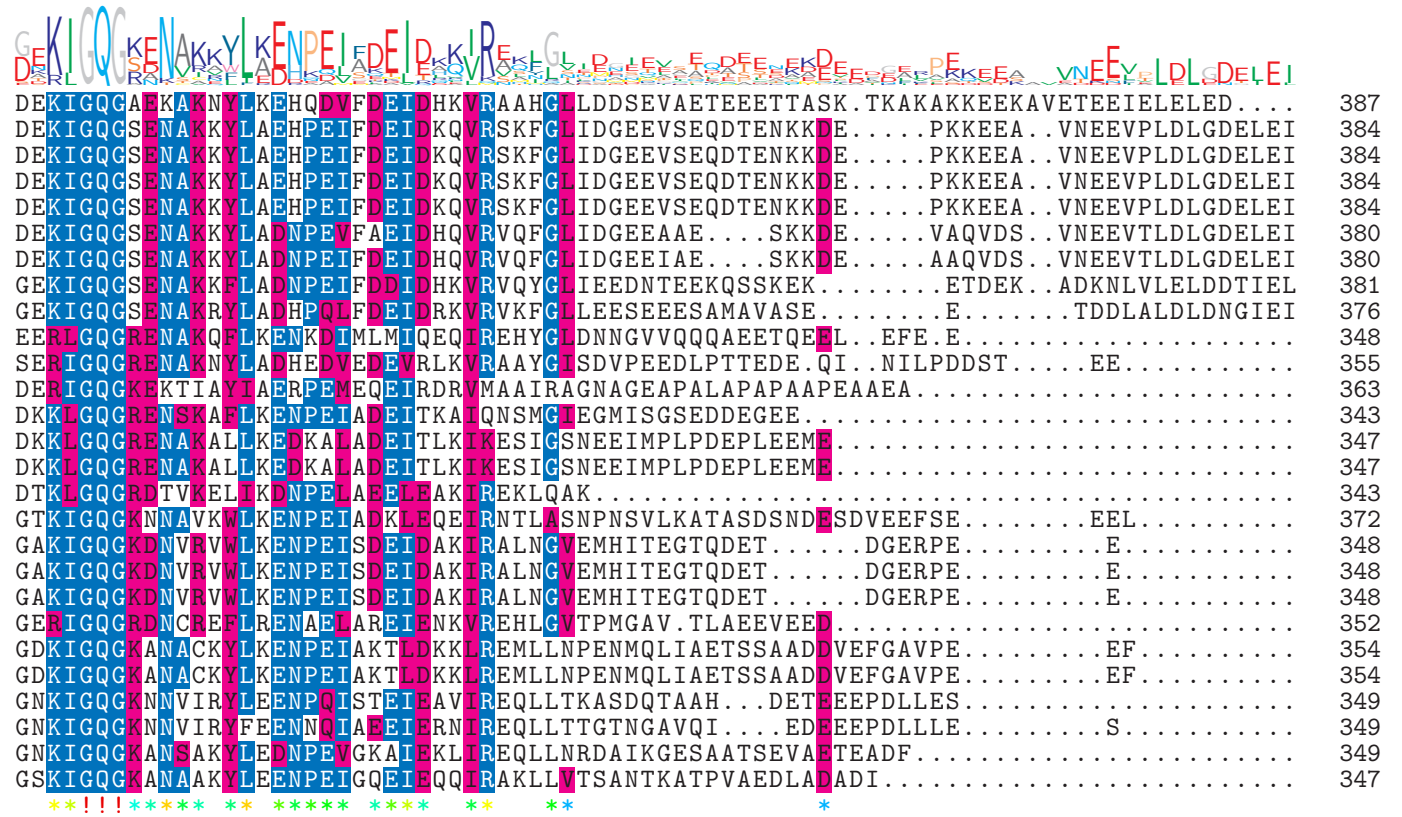


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NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEIITYGGEGISRTGELVKIASDLGI	IQQKAGAWYSYN	311			
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NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....D	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGGEGISKEGEIT	DLGTELDIVQKSGSWYSYE	292		
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT.....D	MIGNRARIKVVKNKVAPPFK	VAEVDIMYGGEGISRTGEL	VDMAVEKDI	INKSGSWYSYG	294	
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTKVKNKVA	APPFKAEVELALVYGGKGF	QLSDLVGLAADMDI	IKKAGSFYSYG	307	
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....L.KQN	EETIGNRVKIKVVKNKVAPP	FRAEAFDVMFGEGLSREG	ELIDYGVKLDIVDKSGAW	FSYK	294	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....L.KQN	EQHIGNRAKIKVVKNKVAPP	FRAEAFDIMFGEGISKEGE	ITIDYGVKLDIVDKSGAW	LSYQ	296	
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....L.KQN	EQHIGNRAKIKVVKNKVAPP	FRAEAFDIMFGEGISKEGE	ITIDYGVKLDIVDKSGAW	LSYQ	296	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLSDTGKIKDKS	GEVIGNRTKIKVVKNKVAPP	FKSAEAFDIMYGGEGVSK	VGEILDVATDLDI	IQQKSGSWFSYQ	307	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....V.KDG	DEIIGSETKIKVVKNKVAPP	FREVQFDIMYGGEGISRM	NELLILAEANGFI	IKKSGAWFSYD	310	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRAEAF	DILYGGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRAEAF	DILYGGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETR	VKVIKKNVAPPFRAEAF	DILYGGEGISWEGEL	IDIGVKNDI	INKSGAWYSYN	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....I.KKG	DEVVGNETKIKVVKNKVAPP	FRAEAFDILYGGAGVSRE	GEITDLGVEAKV	VEKSGAWYSYN	302	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNK	IAAPPFKAEANTQIMYG	QGFNREGELIDL	GVKHKMVEKSGAW	YSYN	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNK	IAAPPFKAEANTQIMYG	QGFNREGELIDL	GVKHKMVEKSGAW	YSYN	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNK	MAPPFKAEAFQILY	GKGNLQGLVLDLAV	QQNIVQKAGAW	YSYQ	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNK	MAPPFKAEAFQILY	GKGNLQGLVLDLAV	QQDIVQKAGAW	YSYQ	293
NTDB id 50436	HSX14	RS23050	WP 111261759.1	SVRLDIRRIGA....V.KEG	EEVVGSETRVKVVKNKVAPP	FRAEAFQILYGKGIYRN	GEITDLGVQQG	ILEKSGAW	YSYQ	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGS	ETRVKVVKNKVAPPF	RQAEFQILYGKGIYRN	GEITDLGVQQGL	VEKSGAWAYK	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 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 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 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
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 NTDB id 1130 NGFG RS03960 WP 003688695.1
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 NTDB id 1427 RS RS02760 WP 011000510.1
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 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 50436 HSX14 RS23050 WP 111261759.1
 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	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
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NTDB id 50436 HSX14 RS23050 WP 111261759.1	349
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consensus

 non conserved
 similar
 ≥ 50% conserved