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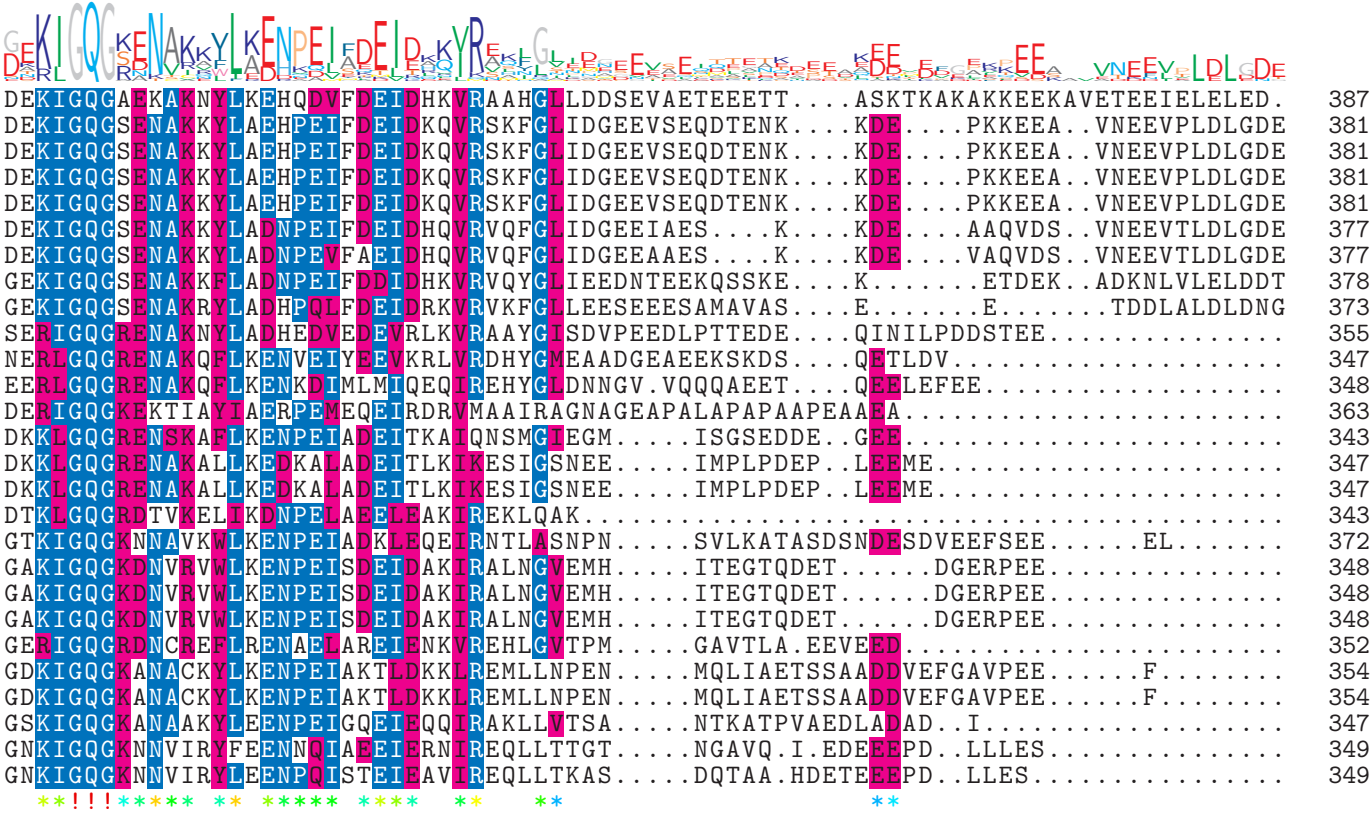
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA.ANQKVS	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
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NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD ERQAALDAALKKIEKN FGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 267264 HLI RS01290 WP 128522693.1	MS DRKQALDMALRQIEKQ FGKGSIMKMGDG.SEQKVHTVSSGSLGLDVALGVGGYPRGR	58
NTDB id 115 BSU 16940 NP 389576.2	MS DRQAALDMALKQIEKQ FGKGSIMKLG EK.TDTRISTVPSGSLALDTALGIGGYPRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD AKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPRGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE DKQKATISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE DKQKATISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPRGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPND DKKKALAAVLEKLDKTYGKGTVMKLG DGTVDHNI EVIPSGSLGLDLALGVGGYPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQ FGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD DKSALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD DKSALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD DKSALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA EKQKALAAALAQIEKQ FGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKKQALAAALGQIEKQ FGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKKQALAAALGQIEKQ FGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQ FGKGAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQ FGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSALQAALSQIEKQ FGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGKITKIKVVKNKVAPPFKEA	VALVDIMFGEGISSTGELINIAVEEGIIKKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETKIKVVKNKVAPPFKEAFV	EIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETKIKVVKNKVAPPFKEAFV	EIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGKETKIKVVKNKVAPPFKEAFV	EIIYEGEGISRTGELVKIASDLGIIQKAGAWYSYN	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TTQIKGTG	.DQKDSN	IGKETKIKVVKNKVAPPFKEAEV	EIMYEGEGISRTGELVKIASDLGIIQKAGAWFSYN	311
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEV	RRRAETIKNGT	DM	IGNRARIKVVKNKVAPPFKEAEV	DIMYGGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 267264 HLI RS01290 WP 128522693.1	SVRLEV	RRRAETLKQGN	EM	VGNKTRLKVVKNKVAPPFKEAEV	DIMYEGEGISREGELLDIGSDLDLIQKSGSWYSYN	292
NTDB id 115 BSU 16940 NP 389576.2	SVRLEV	RRRAEQLKQGN	DV	MGNKTKIKVVKNKVAPPFRTAEV	DIMYEGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRK	IGQ....PTKVG	NDAVANTVKIKTKVNKVAAPFKEVELALVY	GKGFQDQLSDLVGLAADMDIIKKAGSFYSYG	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRK	VAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVMFGEGLS	REGELIDYGVKLDIVDKSGAWFSYK	294	
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIR	RIAS....L.KQNEQH	IGNRAKAKVVKNKVAPPFREAEFDIMFGEGLS	KEGEIIDYGVKLDIVDKSGAWLSYQ	296	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIR	RIAA....L.KQNEQH	IGNRAKAKVVKNKVAPPFREAEFDIMFGEGLS	KEGEIIDYGVKLDIVDKSGAWLSYQ	296	
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIR	RSLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFDIMYEGEGVSKV	GEILDVATDLDIIQKSGSWFSYQ	307	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIR	RCGV....V.KDGD	DEIIGSETKVVVVKNKVAPPFREVFQDIMYEGEGIS	RMNELLILAEANGFIKKSGAWFSYD	310	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIR	RRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFDILYEGEGIS	WEGELIDIGVKNDIINKSGAWYSYN	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIR	RRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFDILYEGEGIS	WEGELIDIGVKNDIINKSGAWYSYN	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIR	RRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFDILYEGEGIS	WEGELIDIGVKNDIINKSGAWYSYN	294	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIR	RIGS....I.KKGD	EVVGNETKVVVVKNKVAPPFREAI	FDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYN	302	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIR	RRTGA....I.KEGE	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFN	REGELIDLGVKHKMVEKSGAWYSYN	293	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIR	RRTGA....I.KEGE	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFN	REGELIDLGVKHKMVEKSGAWYSYN	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIR	RRTGA....V.KEGD	EVVVGSETRVKKVVKNKVAPPFRQAEFQILYGKGIY	RNGEIIDLG	VQQGLVEKSGAWYAYK	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIR	RRIQ....V.KEGD	DEIVGSETKVVVVKNKMAPPFKEAIFQILYGKGTN	QLGELVDLAVQQDIVQKAGAWYSYQ	293	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIR	RRIQ....V.KEGD	DEIVGSETKVVVVKNKMAPPFREAI	FQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	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 625 LCA RS02525 WP 011374196.1
NTDB id 267264 HLI RS01290 WP 128522693.1
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
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NTDB id 1124 NGFG RS03960 WP 003688695.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
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NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
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NTDB id 267264 HLI RS01290 WP 128522693.1		347
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NTDB id 1245 Cj1673c YP 002345041.1		343
NTDB id 1211 C694 RS00795 WP 000963128.1		347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved