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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA . ANQKVS VSSGSLALDI ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGERERKALDDALKNIEKD FGKGA VMRLGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGERERKALDDALKNIEKD FGKGA VMRLGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK. TDTRISTVPSGSLALDI TALGIGGYPGR	58
NTDB id 972702 WMY94 RS08650 WP 014563949.1	.....MAKDEKKAALDAALKKIEKNFGKGA VMRMGEK. ADTQISTVPTGSLALDAA IGVGGYPGR	60
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK. VDTQVSTVSSGSLALDEALGVGGYPGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAM SQIEKAFGKGSIMKLGAE. SKLDVQVSTGSLSLDL ALGVGGIPGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK. EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA IKQIDKVF GKGALVRLGDK. QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA IKQIDKVF GKGALVRLGDK. QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEK LDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT. EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA. EVEPVQVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS KALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKRALAAALGQIEKQFGKGA VMRMGDH. DRQAIPSI STGSLGLDI ALGIGGLPKGR	59
consensus	*** ** * **! *!***** * ****!*!!*!!*!! *! *!*	





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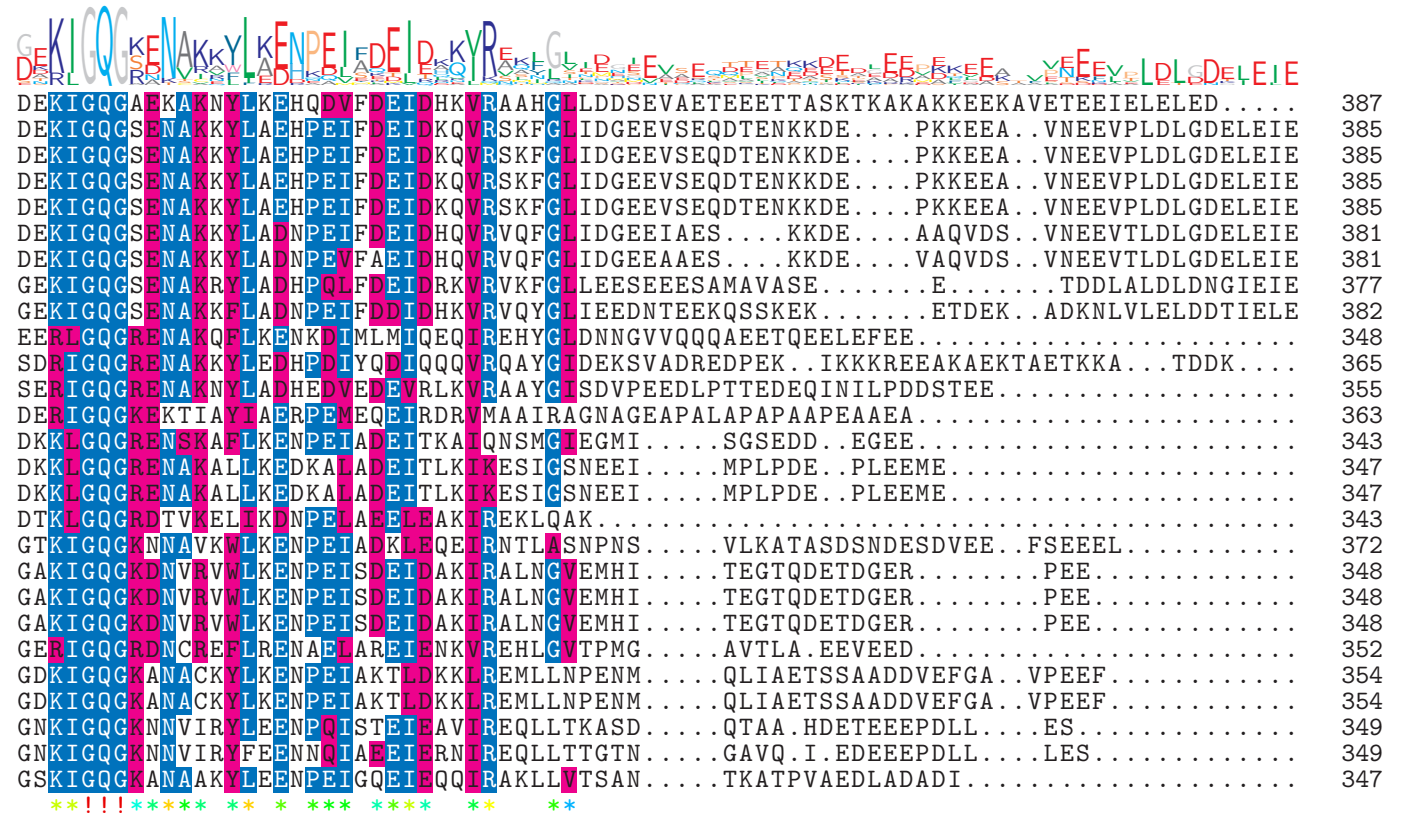


NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	I	K	K	S	G	A	W	F	A	Y	N	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	V	G	K	E	T	K	I	K	V	V	K	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	V	G	K	E	T	K	I	K	V	V	K	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	I	G	K	E	T	K	I	K	V	V	K	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	I	G	K	E	T	K	I	K	V	V	K	311
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.D...V	M	G	N	K	T	K	I	K	V	V	K	292
NTDB id 972702 WMY94 RS08650 WP 014563949.1	TIRLEVRRAEAIKQSG.D...V	I	G	N	R	V	K	I	K	V	V	K	294
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.D...M	I	G	N	R	A	I	K	V	V	K	294	
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ...PTKVGND	A	V	A	N	T	V	K	N	K	V	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT...L.KQNE	E	P	I	G	N	R	V	K	V	V	K	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNE	Q	H	I	G	N	R	A	K	V	V	K	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA...L.KQNE	Q	H	I	G	N	R	A	K	V	V	K	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	I	G	N	R	T	K	V	V	K	307		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KGD	E	I	G	S	E	T	K	V	V	K	310	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKG	E	E	V	L	G	N	E	T	R	V	K	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKG	E	E	V	L	G	N	E	T	R	V	K	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKG	E	E	V	L	G	N	E	T	R	V	K	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS...I.KKG	D	E	V	V	G	N	E	T	K	V	302	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEG	E	E	V	V	G	N	E	T	R	V	K	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEG	E	E	V	V	G	N	E	T	R	V	K	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEG	D	E	I	G	S	E	T	K	V	V	K	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEG	D	E	I	G	S	E	T	K	V	V	K	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA...V.KEG	D	E	V	G	S	E	T	R	V	V	K	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 453 Spy49 1753c ACI62003.1  
NTDB id 408 SMU RS09530 WP 002262392.1  
NTDB id 115 BSU 16940 NP 389576.2  
NTDB id 972702 WMY94 RS08650 WP 014563949.1  
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 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 1022 ACIAD RS06390 WP 004925639.1  
NTDB id 1074 ABD1 RS10195 WP 000344167.1  
NTDB id 1205 PSJM300 05545 AFN77183.1




consensus



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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
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 115 BSU 16940 NP 389576.2	...	348
NTDB id 972702 WMY94 RS08650 WP 014563949.1	...	365
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 1313 DR RS12030 WP 010888966.1	...	363
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 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved  
 similar  
 ≥ 50% conserved