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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVSVSSGSLALDIALGAGGYPKGRI	75
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK...KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MAK...KLKKNEEITKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK...RIKKTTEEITKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPKGRI	59
NTDB id 1062357 ACF0HZ RS05960 WP 394454908.1	MVAK...KTTKKDDQA..KKDGRRAALDEALKKIEKNFGKGSVMTLGDN.ALTQIETIPSGSVKIDVALGVGGYPKGRI	73
NTDB id 625 LCA RS02525 WP 011374196.1	.....M..AKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGRI	61
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVSTGSLSLDLALGVGGIPKGRI	73
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRI	60
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFSGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRI	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFSGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRI	62
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIETVPSGSLGLDLALGVGGYPKGRI	69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSNNNTV..VKQVEPEQKQKALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRI	77
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVSTGSLGLDVALGVGGLPRGRV	69
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRI	60
consensus	*** ** * **! *!***** * **!!!**!*!!! !! !**!	

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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESGKTTVALHVAQAKKEGGIAAFIDAENALDPEYAKALGVNIDELLISQPDYGEQGLQIAEKLITSGAVDLV	155
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHEHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHEHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHEHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHEHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHEHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHEHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHEHALDPAYAAALGVNIDELLAQPDSEGEQGLEIAGKLIDSGAVDLV	154
NTDB id 408 SMU RS09530 WP 002262392.1	VEIYGPESGKTTVALHVAQAQKDGGAFAFIDAHEHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESGKTTVALHVAIEVQQGGQAFAFIDAHEHALDPVYAQKLGVNIEELLISQPDTEGEQALEIAEALVRSGAVDIV	139
NTDB id 1062357 ACF0HZ RS05960 WP 394454908.1	IEVYGPESGKTTIALHVAIEVQKQGGTAAIDAENALDVKYAEALGVKKDELLISQPDTEGEQGLEIADALVQSGAVDMI	153
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPESGKTTVALHVAIEVQKQGGTAAIDAENAMDPKYATALGVNIDELLISQPDTEGEQGLEIADALVSSGAVDIL	141
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESGKTTLALHVAIEVQKQGGTAAIDAENALDVKYAEALGVNIDELLISQPDTEGEQGLEIADALVSSGAVDIV	153
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESGKTTTLHIIAECQKAGGVCFAFIDAHEHALDVKYAKNLGVNTDDLIVSQPDTGEQALEIIVETIARSGAVDLI	140
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESGKTTLSLHIIAECQKNGGVCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	142
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESGKTTLSLHIIAECQKNGGVCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	142
NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPESGKTTTLHIIAECQKNGGVCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	149
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESGKTTTLHIIAECQKNGGVCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	157
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCQKNGGVCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	141
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCQKNGGVCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	141
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCQKNGGVCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	141
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESGKTTTLQVVAEMQKLGSTCAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	149
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESGKTTTLLELIAAAQREGKTCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	140
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPESGKTTTLLELIAAAQREGKTCFAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	140
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPESGKTTMTLQAIACCQKSGGTCFAFIDAHEHALDPQYARKLGVNIDNLLVSQPDHGEQALEIADMLVRSAGIDLIV	140
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPESGKTTMTLQAIACCQKSGGTCFAFIDAHEHALDPQYARKLGVNIDNLLVSQPDHGEQALEIADMLVRSAGIDLIV	140
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESGKTTTLQVVAEMQKLGSTCAFIDAHEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEIETITRSGGIDLIV	140
consensus	*!***!!!!*!!!!* ! **! !* ** !***!!!!*!! !!*****!***!!!!*!!*! * ** !***!!**	







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NTDB id	Accession	Logo	Position
600	KW2 RS01765 WP 011675413.1	.....	387
269	KZH43 RS08665 WP 001085462.1	.EIEIEE..	388
228	SPD RS09265 WP 001085462.1	.EIEIEE..	388
194	SPR RS08825 WP 001085462.1	.EIEIEE..	388
159	SP RS09750 WP 001085462.1	.EIEIEE..	388
527	SMSK321 RS11065 WP 001085454.1	.EIEIEE..	384
499	SM12261 RS08315 WP 078228268.1	.EIEIEE..	384
453	Spy49 1753c ACI62003.1	.EIED....	378
408	SMU RS09530 WP 002262392.1	.ELED....	383
115	BSU 16940 NP 389576.2	.....	348
1062357	ACFOHZ RS05960 WP 394454908.1	DSLTDPEIV	385
625	LCA RS02525 WP 011374196.1	.....	355
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	.....	347
1214	NCTC11637 00359 SQJ03206.1	.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	.....	372
1130	NGFG RS03960 WP 003688695.1	.....	348
1124	NGFG RS03960 WP 003688695.1	.....	348
1123	OK783 RS03845 WP 003688695.1	.....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	.....	354
1142	GTF74 RS11550 WP 000344154.1	.....	354
1074	ABD1 RS10195 WP 000344167.1	.....	349
1022	ACIAD RS06390 WP 004925639.1	.....	349
1205	PSJM300 05545 AFN77183.1	.....	347

consensus

-  non conserved
-  similar
-  ≥ 50% conserved