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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGRI	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 499 SM12261 RS08315 WP 078228268.1	.MAK...KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MAK...KLKKNEEITKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK...RIKKTEEITKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRI	59
NTDB id 1077020 ACI3ES RS03085 WP 114666497.1	MVTK...KTTKKDD.KAKKDGRAALNEALKKIEKNFGKGSVMTLGDN.ALTQVETIPSGSVKLDIALGVGGYPKGRI	73
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRI	61
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVSTGSLSLDLALGVGGIPRGRI	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 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRALAAALGQIEKQFGKGAVMRMDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRI	60
consensus	*** ** * **! *!***** * ***!****!!*!!*!!*!!*	

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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESGKTTVALHVAQAKKEGGIAAFIDAENALDPEYAKALGVNIDELLSQPDYGEQGLQIAEKLITSGAVDLV	155
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLAQPDSEGEQGLEIAGKLIDSGAVDLV	154
NTDB id 408 SMU RS09530 WP 002262392.1	VEIYGPESGKTTVALHVAQAQKDGGAFAFIDAHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESGKTTVALHVAIEVQQGGQAFAFIDAHALDPVYAQKLGVNIEELLSQPDTGEQALEIAEALVRSGAVDIV	139
NTDB id 1077020 ACI3ES RS03085 WP 114666497.1	IEVYGPESGKTTIALHVAIEVQKGGTAAYIDAENALDVKYAEALGVKKDELLSQPDTGEQGLEIADALVQSGAVDMI	153
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPESGKTTVALHVAIEVQKGGTAAYIDAENAMDPKYATALGVNIDELLSQPDTGEQGLEIADALVSSGAVDIL	141
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESGKTTLALAIVAQAQKAGGTCFAFIDAHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGATDVV	153
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESGKTTTLHIIAECQKAGGVCFAFIDAHALDVKYAKNLGVNTDDLIVSQPDFGEQALEIVETIARSGAVDLI	140
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESGKTTLSLHIIAECQKNGGVCFAFIDAHALDVHYAKRGLVDTENLLVSQPDTGEQALEILETITRSGGIDLIV	142
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESGKTTLSLHIIAECQKNGGVCFAFIDAHALDVHYAKRGLVDTENLLVSQPDTGEQALEILETITRSGGIDLIV	142
NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPESGKTTTLHAIIEAQKVGGAFAFIDAHAFFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLTRSGGVDIV	149
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESGKTTTLTSLIIAQAQKGNKTCFAFIDAHALDPVYARNLGVNTDELLSQPDNGEQALEICDALVRSGAVDIV	157
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCQKNGGVCFAFVDAEHAFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCQKNGGVCFAFVDAEHAFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCQKNGGVCFAFVDAEHAFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESGKTTTLQVVAAEMQKLGGTCFAFIDAHALDVTYADKLGKVPDLLISQPDTEGEQALEIADALVRSGSVDLI	149
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESGKTTLTLELIAAAQREGKTCFAFIDAHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDIV	140
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPESGKTTLTLELIAAAQREGKTCFAFIDAHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDIV	140
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPESGKTTMTLQAIQAQCQKAGGTCFAFIDAHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMVRSGATDLI	140
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPESGKTTMTLQAIQAQCQKSGGTCFAFIDAHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMVRSGATDLI	140
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESGKTTTLSVIIAAARMGSTCFAFVDAEHALDPDYAGKLGVNVDLLVSQPDTEGEQALEITDMLVRSNAVDVI	140
consensus	*!***!!!!*!!!!* ! **! !* ** !***!!!!*!! !!*****!***!!!!*!!*! * ** !***!!**	

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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 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 115 BSU 16940 NP 389576.2	....	348
NTDB id 1077020 ACI3ES RS03085 WP 114666497.1	EPIV	384
NTDB id 625 LCA RS02525 WP 011374196.1	E...	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