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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTTLALAI V AQAQKAGGTC AFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDV VVV	155
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGGKTTVALHAVA AAVQKEGGIAAFIDAENALDPEYAKALGVNTDELLS QPDYGEQGLQIAEKLITSGAVDLVVT	157
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKKEGGIAAFIDA EHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKKEGGIAAFIDA EHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKKEGGIAAFIDA EHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKKEGGIAAFIDA EHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGGKTTVALHAVAQAQKKEGGIAAFIDA EHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGGKTTVALHAVAQAQKKEGGIAAFIDA EHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGGKTTVALHAVAQAQKKEGGIAAFIDA EHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGGKTTVALHAVAQAQKDGGA AFIDAEHALDPAYAAALGVNIDELL S QPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 115 BSU 16940 NP 389576.2	YIYGPESGGKTTVALHAVAIEVQQQGGQA AFIDAEHALDPVY A QKLGVNIEELL S QPDTGEQALEIAEALVRS GAVDIVVV	141
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGGKTTVALHAVAIEVQKGGTAAY IDAENAMDPKYATALGVNIDLL S QPDTGEQGLEIADALV SSGAVDILVV	143
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGGKTTLTLHIIAECQKAGGVC AFIDAEHALDVKYAKNLGVNTD DLYVSQPDFGEQALEIVETIARSGAVD L I V V	142
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGGKTTLSLHIIAECQKNGGVC AFIDAEHALDVHYAKRLGVDTENLL S QPDTGEQALEILETITRSGGIDLVVV	144
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGGKTTLSLHIIAECQKNGGVC AFIDAEHALDVHYAKRLGVDTENLL S QPDTGEQALEILETITRSGGIDLVVV	144
NTDB id 1334 RAOC RS04870 WP 004918236.1	IYGPESGGKTTLTLHIIAEAQKVGTA AFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGVDIVVV	151
NTDB id 83239 IGS71 RS10380 WP 055516554.1	YIYGPESGGKTTLTLHAVANAQKAGGQVAF IDAEHALDPEYAKKLGVDIENLIL S QPDNGEQALEIVDMLIRSGALDLIVT	143
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGGKTTLTLSLIIAQAQKGNKTC AFIDAEHALDPVYARNLGVNTDELL S QPDNGEQALEICDALVRS GAVDVIVV	159
NTDB id 1130 NGFG RS03960 WP 003688695.1	IFGPESGGKTTLCLEAVAQCQKNGGVC AFVDAEHAFDPVYARKLGKVEELYLSQPD TGEQALEICDTLVRSGGIDM VVV	143
NTDB id 1124 NGFG RS03960 WP 003688695.1	IFGPESGGKTTLCLEAVAQCQKNGGVC AFVDAEHAFDPVYARKLGKVEELYLSQPD TGEQALEICDTLVRSGGIDM VVV	143
NTDB id 1123 OK783 RS03845 WP 003688695.1	IFGPESGGKTTLCLEAVAQCQKNGGVC AFVDAEHAFDPVYARKLGKVEELYLSQPD TGEQALEICDTLVRSGGIDM VVV	143
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGGKTTLTLQVVAEMQKLGGTCAF IDAEHALDVTYADKLGKVPD L LISQPD TGEQALEIADALVRS GSVDLIVT	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IFGPESGGKTTLTLLELIAAAQREGKTC AFIDAEHALDPVYAKKLGVNIDELL S QPDTGEQALEICDALARSGAVD VIVV	142
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IFGPESGGKTTLTLLELIAAAQREGKTC AFIDAEHALDPVYAKKLGVNIDELL S QPDTGEQALEICDALARSGAVD VIVV	142
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGGKTTMTLQAI AQCQKAGGTC AFIDAEHALDPQYARKLGVDIDNLL S QPDHGEQALEIADMLVRS GATDLIVV	142
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGGKTTMTLQAI AQCQKSGGTC AFIDAEHALDPQYARKLGVDIDNLL S QPDNGEQALEIADMLVRS GATDLIVV	142
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGGKTTLTLSVLIAAAQRMGSTCAF VDAEHALDPDYAGKLGVNVDLL S QPDTGEQALEITDMLVRS N A V D V I I V	142
consensus	**!!!!*!!!!* ! **! !* ** !*!!!!*!!* !! !*!!!!*!!!!*!!!!*!!* * *!!!!*!!!!*!!!!*	

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLDDSEVAETEETASKT.KAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES...KKDE....AAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAS...KKDE....VAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSSENAKRYLADHPQLFDEIDRKVVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 115 BSU 16940 NP 389576.2	LGQGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAETQEEL..EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGGRENAKNYLADHEDVEDEVRLKVRAAYSIDVPEEDLPTTEDE.QI..NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	LGQGGRENSKAFLEKENPEIADEITKAIQNSMGI EGMISGSED..DEGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPD..EPLEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPD..EPLEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRDITVKELIKDNPELAELEAKIREKLQAK.....	343
NTDB id 83239 IGS71 RS10380 WP 055516554.1	LGQGGKENARNFLKDNPDLANEIEKKILEKLGIVGVKPEQPT..AEPGADA AVSVAPGEEAAKT....VPAPAAKTVPKPKAA	370
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESDVEEFSEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLRENAELAREIENKVRHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDKKLRREMLLNPNMQLIAETSSAADDVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDKKLRREMLLNPNMQLIAETSSAADDVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA..HDETEEEPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ..I.EDEEEPDLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADADI.....	347
consensus	*!!!***** ** ***** ***** ** ** *	

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NTDB id 1313 DR RS12030 WP 010888966.1	363
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E...	388
NTDB id 228 SPD RS09265 WP 001085462.1	E...	388
NTDB id 194 SPR RS08825 WP 001085462.1	E...	388
NTDB id 159 SP RS09750 WP 001085462.1	E...	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E...	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E...	384
NTDB id 453 Spy49 1753c ACI62003.1	.....	378
NTDB id 408 SMU RS09530 WP 002262392.1	.....	383
NTDB id 115 BSU 16940 NP 389576.2	348
NTDB id 625 LCA RS02525 WP 011374196.1	355
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	343
NTDB id 83239 IGS71 RS10380 WP 055516554.1	AAKS	374
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