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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTTVALAIVAAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVVVV	155
NTDB id 284360 DSM105001 RS06995 WP 021364420.1	YIGPESSGKTTVALSCVASAQKDGGAFAFIDAEHALDPVYAKALGVVDNLIISQPDTEGEQALEIAEALIRSGAIDITVI	144
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGKTTVALHAVAAVQKEGGIAAFIDAEHALDPEYAKALGVNIDELLVSQPDYGEQGLQIAEKLITSGAVDLVVI	157
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGKTTVALHAVAQAQKDGGAFAFIDAEHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAAALGVNIDELLVAQPDSEGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 115 BSU 16940 NP 389576.2	YIGPESSGKTTVALHAAAEVQQQGGQAAFIDAEHALDPVYAQKALGVNIDELLVSQPDTEGEQALEIAEALVRSGAIDIVVV	141
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGKTTVALHAVAQVQKQGGTAAYIDAENAMPKYATAALGVNIDLLVSQPDTEGEQGLEIADALVSSGAVDILVV	143
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGKTTTLHIIAECQKAGGVCFAFIDAEHALDVKYAKNLGVNTDDLVSQPDFGEQALEIVETIARSGAVDLIVV	142
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGKTTLSLHIIAECQKNGGVCFAFIDAEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEILETITRSGGIDLVVV	144
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGKTTLSLHIIAECQKNGGVCFAFIDAEHALDVHYAKRGLVDTENLLVSQPDTEGEQALEILETITRSGGIDLVVV	144
NTDB id 1334 RA0C RS04870 WP 004918236.1	IYGPESGKTTTLHAAIAEAQKVGGAFAFIDAEHALFDMHYAEKGLINLELLVSQPDNGEQALEIADSLTRSGGVDIVVV	151
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGKTTTLTSLIAQAQKGNKTCFAFIDAEHALDPVYARNLGVNTDELLVSQPDNGEQALEICDALVRSGAIDVIVV	159
NTDB id 1130 NGFG RS03960 WP 003688695.1	IFGPESGKTTLCLEAVAQCKNGGVCFAFVDAEHAFFDPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMVVV	143
NTDB id 1124 NGFG RS03960 WP 003688695.1	IFGPESGKTTLCLEAVAQCKNGGVCFAFVDAEHAFFDPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMVVV	143
NTDB id 1123 OK783 RS03845 WP 003688695.1	IFGPESGKTTLCLEAVAQCKNGGVCFAFVDAEHAFFDPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMVVV	143
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGKTTTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTEGEQALEIADALVRSGSVDLIVI	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IFGPESGKTTLTLELIAAAQREGKTCFAFIDAEHALDPVYAKKALGVNIDELLVSQPDTEGEQALEICDALARSGAVDIVV	142
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IFGPESGKTTLTLELIAAAQREGKTCFAFIDAEHALDPVYAKKALGVNIDELLVSQPDTEGEQALEICDALARSGAVDIVV	142
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGKTTMTLQAIQAQCKAGGTCAFIDAEHALDPQYARKLGVNIDNLLVSQPDHGEQALEIADMLVRSGAIDLIVV	142
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGKTTMTLQAIQAQCKSGGTCAFIDAEHALDPQYARKLGVNIDNLLVSQPDNGEQALEIADMLVRSGAIDLIVV	142
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGKTTTLSVLIAAAQRMGSTCAFVDAEHALDPDYAGKALGVNVDLLVSQPDTEGEQALEITDMLVRSNAVDIVV	142
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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGKEKTIAYIAERPEMEQETIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 284360 DSM105001 RS06995 WP 021364420.1	IGQGRENVKRFLENDLDTTETDEKVRAFYNLNEEHEESGISVSKEIVE.....E.....	348
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEETASKTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSNAKKYLAHPPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSNAKKYLAHPPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSNAKKYLAHPPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSNAKKYLAHPPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSNAKKYLADNPEVFAEIDHQVVRVQFGLIDGEAAE...SKKDE...VAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSNAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSNAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSNAKRYLADHPQLFDEIDRKVVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNNGIEIED..	378
NTDB id 115 BSU 16940 NP 389576.2	IGQGRENAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGRENAKKNYLADHEDVEDEVRLKVRRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	IGQGRENSKAFLENPEIADETTKATQNSMGIEMISGSEDD..EGEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IGQGRENAKALLKEDKALADEITLTKIKESIGSNEEIMPLPDE..PLEEM.E.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	IGQGRENAKALLKEDKALADEITLTKIKESIGSNEEIMPLPDE..PLEEM.E.....	347
NTDB id 1334 RA0C RS04870 WP 004918236.1	IGQGRDTRVKELEIKDNPELAELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGNNAVKWLKENPEIADKLEQETIRNTLASNPNSVLKATASDSNDES.DVEEF.....SEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLENAEELAREIENKVRHGLVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGANACKYWKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGANACKYWKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGNVIRVLEENQISTEIEAVIREQLLTKASDQTA.A.HDETEEEP.DLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGNVIRVFEENNQIAEIEIERNIREQLLTTGTNGAVQ.I.EDEEEP.DLL.....LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347
consensus	*!!!**** ** ***** ** ** ** **	

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