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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTTALAIVAQAQKAGGTCAFIDAETHALDPVYARALGVNIDELLVSQPDNGEQALEIMELLVRSGAIDVVVV	155
NTDB id 153367 CDIF28666 RS07055 WP 003428218.1	YIGPESSGKTTVALSCVASAQKDGGAFAFIDAETHALDPVYAKALGVVDNLIISQPDTEGEQALEIAEALIRSGAIDITVI	144
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGKTTVALHAVAAVQKEGGIAAFIDAETHALDPEYAKALGVNIDELLVSQPDYGEQGLQIAEKLITSGAVDLVVI	157
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAETHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAETHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAETHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAETHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAETHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAETHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGKTTVALHAVAQAQKDGGAFAFIDAETHALDPAYAAAALGVNIDELLVSQPDSGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGKTTVALHAVAQAQKEGGIAAFIDAETHALDPAYAAAALGVNIDELLVAQPDSEGEQGLEIAGKLIDSGAVDLVVV	156
NTDB id 115 BSU 16940 NP 389576.2	YIGPESSGKTTVALHAIAEVQQQGGQAAAFIDAETHALDPVYAQKALGVNIDELLVSQPDTEGEQALEIAEALVRSGAIDIVVV	141
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGKTTVALHAVAQVQKQGGTAAYIDAENAMPKYATAALGVNIDLLLSQPDTEGEQGLEIADALVSSGAVDILVV	143
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGKTTTLHIIAECQKAGGVCFAFIDAETHALDVKYAKNLGVNTDDLVSQPDFGEQALEIVETIARSGAVDLIVV	142
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGKTTLSLHIIAECQKNGGVCFAFIDAETHALDVHYAKRNLGVNIDENLLVSQPDTEGEQALEILETITRSGGIDLIVV	144
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGKTTLSLHIIAECQKNGGVCFAFIDAETHALDVHYAKRNLGVNIDENLLVSQPDTEGEQALEILETITRSGGIDLIVV	144
NTDB id 1334 RA0C RS04870 WP 004918236.1	IYGPESGKTTTLHAIIAEAQKVGGAFAFIDAETHALFDMHYAEKLGINLEELVSQPDNGEQALEIADSLTRSGGVDIVVV	151
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGKTTTLTSLIAQAQKGNKTCFAFIDAETHALDPVYARNLGVNIDELLVSQPDNGEQALEICDALVRSGAIDVIVV	159
NTDB id 1130 NGFG RS03960 WP 003688695.1	IFGPESGKTTLCLEAVAQCQKNGGVCFAFVDAEHAHAFDPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMVVV	143
NTDB id 1124 NGFG RS03960 WP 003688695.1	IFGPESGKTTLCLEAVAQCQKNGGVCFAFVDAEHAHAFDPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMVVV	143
NTDB id 1123 OK783 RS03845 WP 003688695.1	IFGPESGKTTLCLEAVAQCQKNGGVCFAFVDAEHAHAFDPVYARKLGVKVEELYLSQPDTEGEQALEICDTLVRSGGIDMVVV	143
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGKTTTLQVVAEMQKLGGAFAFIDAETHALDVTYADKLGVKVPDLLISQPDTEGEQALEIADALVRSGSVDLIVV	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IFGPESGKTTLTLELIAAAQREGKTCFAFIDAETHALDPVYAKKALGVNIDELLVSQPDTEGEQALEICDALARSGAVDIVV	142
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IFGPESGKTTLTLELIAAAQREGKTCFAFIDAETHALDPVYAKKALGVNIDELLVSQPDTEGEQALEICDALARSGAVDIVV	142
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGKTTMTLQAIQAQKAGGTCFAFIDAETHALDPQYARKLGVNIDNLLVSQPDHGEQALEIADMLVRSGAIDLIVV	142
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGKTTMTLQAIQAQKSGGTCFAFIDAETHALDPQYARKLGVNIDNLLVSQPDNGEQALEIADMLVRSGAIDLIVV	142
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGKTTTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKALGVNVDLLVSQPDTEGEQALEITDMLVRSNAVDIVV	142
consensus	**!!!!*!!!!* ! **! !* ** !**!!!!*!* * ! !*****!***!!!!*!!!!*!*! * ***!***!***	

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGKEKTIAYIAERPEMEQETIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 153367 CDIF28666 RS07055 WP 003428218.1	LGQGRENVKVFLENDLDTTETDEKVRAFYNLNEEHEESGTSVSKEIVE.....E.....	348
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEETASKTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSENAkkYLAehPEIFDEIDKQVRSKfGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSENAkkYLAehPEIFDEIDKQVRSKfGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSENAkkYLAehPEIFDEIDKQVRSKfGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSENAkkYLAehPEIFDEIDKQVRSKfGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSENAkkYLADnPEVFAEIDHQVrvVQfGLIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSENAkkYLADnPEIFDEIDHQVrvVQfGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSENAkkFLADnPEIFDDIDHKVrvVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSENAkkRYLADhPQLFDEIDRKVrvVKfGLEESEESAMAVASE.....E.....TDDLALDLNGIEIED..	378
NTDB id 115 BSU 16940 NP 389576.2	LGQGRENAkQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGRENAkNYLADhEDVEDEVRLKvRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	LGQGRENSkAFLKENPEIADETTKATQNSMGIEMISGSEDD..EGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGRENAkALLkEDKALADEITLkIKESIGSNEEIMPLPDE..PLEEM.E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGRENAkALLkEDKALADEITLkIKESIGSNEEIMPLPDE..PLEEM.E.....	347
NTDB id 1334 RA0C RS04870 WP 004918236.1	LGQGRDtvkELIKDNPELAELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGNNAkVkwLKENPEIADKLEQETIRNTLASNPNSVLKATASDSNDES.DVEEF.....SEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGDNVrvVwLKENPEISDEIDAKIRALNGVEMHITEGTQDETdGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGDNVrvVwLKENPEISDEIDAKIRALNGVEMHITEGTQDETdGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGDNVrvVwLKENPEISDEIDAKIRALNGVEMHITEGTQDETdGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDncREFLRENALAREIENKvREHLGvTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGNNAkACKYlKENPEIAKTLdKKLREMLLNPNEMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGNNAkACKYlKENPEIAKTLdKKLREMLLNPNEMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGNNVIRYlEENPQISTEIEAVIREQLLTKASDQTA.A.HDETEEEP.DLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGNNVIRYfEENnQIAEIEIERNIREQLLTTGTNGAVQ.I.EDEEEP.DLL.....LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGNNAkAAkYlEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347
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