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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTTLALAIVAQAQKAGGTC	AFIDAEHALDPVYARALGVNTDELLVSQPDN	GEQALEIMELLVRS	GAVD	IVVV	155
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGGKTTLTLHIIAECQKAGGVC	AFIDAEHALDVKYAKNLGVNTD	DLVSQPDFGEQALEIVETI	ARSGAVD	LIVV	142
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGGKTTLSLHIIAECQKNGGVC	AFIDAEHALDVHYAKRLGVD	TENLLVSQPD	TGEQALEILETIT	TRSGGIDLIVV	144
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGGKTTLSLHIIAECQKNGGVC	AFIDAEHALDVHYAKRLGVD	TENLLVSQPD	TGEQALEILETIT	TRSGGIDLIVV	144
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPEYAKALGVN	IDEALLSQPDYGEQGLQIAE	KLITSGAVD	LIVV	157
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPAYAAALGVN	IDEALLSQPDSGEQGLEI	AGKLIDSGAVD	LIVV	156
NTDB id 1076914 ACH36K RS08800 WP 411170555.1	IYGPESGGKTTVALHIIAAEAQKNGG	AVAFIDAEHALDPSYARNL	GVNTEENLLVSQPD	TGEQGLEIAEALV	RS	145
NTDB id 115 BSU 16940 NP 389576.2	IYGPESGGKTTVALHIIAAEAQKNGG	AVAFIDAEHALDPSYARNL	GVNTEENLLVSQPD	TGEQGLEIAEALV	RS	141
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGGKTTVALHAVAQKQEGGIA	AFIDAEHALDPEYAKALGVN	IDEALLSQPDTGEQGLEI	ADALVSSGAVD	LIVV	143
NTDB id 1334 RAOC RS04870 WP 004918236.1	IYGPESGGKTTLTLHIIAQAQKAGG	TCAFIDAEHALDPEYAKALGVN	IDEALLSQPDTGEQGLEI	ADALVSSGAVD	LIVV	151
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGGKTTLTLHIIAQAQKAGG	TCAFIDAEHALDPEYAKALGVN	IDEALLSQPDTGEQGLEI	ADALVSSGAVD	LIVV	159
NTDB id 1130 NGFG RS03960 WP 003688695.1	IYGPESGGKTTLTLHIIAQAQKAGG	TCAFIDAEHALDPEYAKALGVN	IDEALLSQPDTGEQGLEI	ADALVSSGAVD	LIVV	143
NTDB id 1124 NGFG RS03960 WP 003688695.1	IYGPESGGKTTLTLHIIAQAQKAGG	TCAFIDAEHALDPEYAKALGVN	IDEALLSQPDTGEQGLEI	ADALVSSGAVD	LIVV	143
NTDB id 1123 OK783 RS03845 WP 003688695.1	IYGPESGGKTTLTLHIIAQAQKAGG	TCAFIDAEHALDPEYAKALGVN	IDEALLSQPDTGEQGLEI	ADALVSSGAVD	LIVV	143
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGGKTTLTLQVVAEMQKLG	GTCAFIDAEHALDVTYADKL	GVKVPDLLISQPD	TGEQALEIADALV	RS	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IYGPESGGKTTLTLQVVAEMQKLG	GTCAFIDAEHALDVTYADKL	GVKVPDLLISQPD	TGEQALEIADALV	RS	142
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IYGPESGGKTTLTLQVVAEMQKLG	GTCAFIDAEHALDVTYADKL	GVKVPDLLISQPD	TGEQALEIADALV	RS	142
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGGKTTLTLQVVAEMQKLG	GTCAFIDAEHALDVTYADKL	GVKVPDLLISQPD	TGEQALEIADALV	RS	142
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGGKTTMTLQAIQAQCQK	AGGTCAFIDAEHALDPQYARK	LGVNIDNLLVSQPD	NGEQALEIADMLV	RS	142
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGGKTTMTLQAIQAQCQK	AGGTCAFIDAEHALDPQYARK	LGVNIDNLLVSQPD	NGEQALEIADMLV	RS	142
consensus	**!!!!*!!!!* ! **!	!* **	!***!!!!*!* *!	!! !**!*!*!*!*!*!*!	* **!*!*!*!*!*!*!	142





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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGKKEKTIAYIAERPMEQETIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	LGQGRENSKAFLEKENPEIADEITKAIQNSMGI EGMISGSSEDDEGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEPLEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEPLEEME.....	347
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEKAKNYLKEHQDV FDEIDHKVRAAHGLDDSEVAETEETTASKTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSSENAKKYLADNPEVFAEIDHQV RVVQFGLIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSSENAKKYLADNPEIFDEIDHQV RVVQFGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSSENAKRYLADHPQLFDEIDR KVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSSENAKKFLADNPEIFDDIDHKV RVVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 1076914 ACH36K RS08800 WP 411170555.1	IGQGRENAKQYLKDNAETALEIENKIREKYDLPVMKEVSTNKNGKEE.....	346
NTDB id 115 BSU 16940 NP 389576.2	LGQGRENAKQFLKENKDIMLMIQE QIREHYGLDNNGVVQQQAEEETQEELE.FE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGRENAKNYLADHEDVEDEVRLK VRAAYGISDVPPEEDLPTTEDE.QIN.ILPDDST.....EE.....	355
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRD TVKELTKDNPEIAEEL EAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGXNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES DVEE.....FSEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGE.....RPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGE.....RPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGE.....RPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLRENAELAREIENK VREHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGANACKYLKENPEIAKTLDKKLREMLLN PENMQLIAETSSAADDVEFGA.....VPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGANACKYLKENPEIAKTLDKKLREMLLN PENMQLIAETSSAADDVEFGA.....VPEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGANAAKYLEENPEIGQETEQQIRAKLLVTSANTKATPVAEDLADAD..I.....	347
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGXNNVIRYFEENNQIAE EIERNIREQLLTTGTNGAVQ..I.EDEE EEPD..L.....LLES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGXNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEE EEPD..L.....LES.....	349
consensus	*!!!***** ** ***** ***** ** **	

non conserved  
 similar  
 ≥ 50% conserved