

Supplementary Table 1. Open reading frames with hybridization levels below background in both the wild type and *rrp1* knockout strains

Gene number	Annotation
BB0001	hypothetical protein
BB0002	beta-N-acetylhexosaminidase, putative
BB0003	hypothetical protein
BB0004	phosphoglucomutase (<i>femD</i>)
BB0005	tryptophanyl-tRNA synthetase (<i>trsA</i>)
BB0008	conserved hypothetical protein
BB0009	hypothetical protein
BB0015	uridine kinase (<i>udk</i>)
BB0025	conserved hypothetical protein
BB0029	conserved hypothetical protein
BB0033	small protein (<i>smpB</i>)
BB0036	DNA topoisomerase IV (<i>parE</i>)
BB0038	hypothetical protein
BB0040	chemotaxis protein methyltransferase (<i>cheR-1</i>)
BB0041	conserved hypothetical protein
BB0053	uracil DNA glycosylase (<i>ung</i>)
BB0060	conserved hypothetical protein
BB0062	hypothetical protein
BB0063	hypothetical protein
BB0071	hypothetical protein
BB0072	hypothetical protein
BB0073	hypothetical protein
BB0076	signal recognition particle-docking protein FtsY (<i>ftsY</i>)
BB0077	hypothetical protein
BB0079	hypothetical protein
BB0081	conserved hypothetical protein
BB0102	hypothetical protein
BB0116	PTS system, maltose and glucose-specific IIABC component (<i>malX</i>)
BB0130	hypothetical protein
BB0143	conserved hypothetical protein
BB0148	hypothetical protein
BB0150	hypothetical protein
BB0168	<i>dnaK</i> suppressor, putative
BB0187	hypothetical protein
BB0199	hypothetical protein
BB0206	conserved hypothetical protein
BB0208	hypothetical protein
BB0223	hypothetical protein
BB0234	conserved hypothetical integral membrane protein
BB0239	deoxyguanosine/deoxyadenosine kinase(I) subunit 2 (<i>dck</i>)
BB0247	conserved hypothetical protein
BB0259	hypothetical protein
BB0263	signal peptidase I (<i>lepB-3</i>)

BB0276 flagellar biosynthesis protein (fliZ)
BB0288 flagellum-specific ATP synthase (fliI)
BB0295 heat shock protein (hslU)
BB0310 hypothetical protein
BB0312 purine-binding chemotaxis protein (cheW-1)
BB0315 hypothetical protein
BB0318 methylgalactoside ABC transporter, ATP-binding protein (mglA)
BB0320 hypothetical protein
BB0322 hypothetical protein
BB0326 hypothetical protein
BB0331 hypothetical protein
BB0335 oligopeptide ABC transporter, ATP-binding protein (oppF)
BB0347 fibronectin/fibrinogen-binding protein, putative
BB0352 hypothetical protein
BB0353 hypothetical protein
BB0354 hypothetical protein
BB0368 glycerol-3-phosphate dehydrogenase, NAD(P)⁺ (gpsA)
BB0369 ATP-dependent Clp protease, subunit A (clpA)
BB0374 hypothetical protein
BB0375 5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase
BB0378 hypothetical protein
BB0384 basic membrane protein C (bmpC)
BB0385 basic membrane protein D (bmpD)
BB0399 hypothetical protein
BB0400 hypothetical protein
BB0401 glutamate transporter, putative
BB0403 hypothetical protein
BB0409 hypothetical protein
BB0410 hypothetical protein
BB0411 endonuclease precursor (nucA)
BB0412 hypothetical protein
BB0413 conserved hypothetical integral membrane protein
BB0414 chemotaxis protein methyltransferase (cheR-2)
BB0417 adenylate kinase (adk)
BB0421 hydrolase
BB0428 hypothetical protein
BB0430 conserved hypothetical protein
BB0432 hypothetical protein
BB0433 hypothetical protein
BB0434 stage 0 sporulation protein J (spo0J)
BB0438 DNA polymerase III, subunit beta (dnaN)
BB0447 Na⁺/H⁺ antiporter (napA)
BB0449 conserved hypothetical protein
BB0450 RNA polymerase sigma-54 factor (ntrA)
BB0452 hypothetical protein
BB0453 conserved hypothetical protein

BB0454	lipopolysaccharide biosynthesis-related protein
BB0456	hypothetical protein
BB0459	hypothetical protein
BB0460	hypothetical protein
BB0474	hypothetical protein
BB0506	hemolysin (tlyA)
BB0507	hypothetical protein
BB0516	rRNA methylase (yacO)
BB0519	grpE protein (grpE)
BB0523	hypothetical protein
BB0524	inositol monophosphatase
BB0527	conserved hypothetical protein
BB0528	aldose reductase, putative
BB0532	hypothetical protein
BB0535	hypothetical protein
BB0546	hypothetical protein
BB0547	conserved hypothetical protein
BB0549	hypothetical protein
BB0552	DNA ligase (lig)
BB0555	hypothetical protein
BB0556	hypothetical protein
BB0564	hypothetical protein
BB0565	purine-binding chemotaxis protein (cheW-2)
BB0566	hypothetical protein
BB0574	conserved hypothetical integral membrane protein
BB0592	hypothetical protein
BB0616	conserved hypothetical integral membrane protein
BB0623	transcription-repair coupling factor (mfd)
BB0632	exodeoxyribonuclease V, alpha chain (recD)
BB0633	exodeoxyribonuclease V, beta chain (recB)
BB0634	exodeoxyribonuclease V, gamma chain (recC)
BB0639	spermidine/putrescine ABC transporter, (potD)
BB0657	ribose 5-phosphate isomerase (rpi)
BB0673	conserved hypothetical protein
BB0674	hypothetical protein
BB0684	carotenoid biosynthesis protein, putative
BB0707	hypothetical protein
BB0717	conserved hypothetical integral membrane protein
BB0721	CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase
BB0734	conserved hypothetical protein
BB0737	histidine phosphokinase/phosphatase, putative
BB0739	hypothetical protein
BB0740	conserved hypothetical protein
BB0745	endonuclease III (nth)
BB0750	hypothetical protein
BB0751	hypothetical protein

BB0753 membrane spanning protein, putative
BB0758 hypothetical protein
BB0761 conserved hypothetical protein
BB0762 hypothetical protein
BB0764 sensory transduction histidine kinase, putative
BB0768 pyridoxal kinase (pdxK)
BB0771 RNA polymerase sigma factor (rpoS)
BB0772 flagellar P-ring protein (flgI)
BB0773 hypothetical protein
BB0776 hypothetical protein
BB0790 hypothetical protein
BB0793 thymidylate kinase (tmk)
BB0797 DNA mismatch repair protein (mutS)
BB0798 competence protein F, putative
BB0803 tRNA pseudouridine 55 synthase (truB)
BB0806 hypothetical protein
BB0807 conserved hypothetical integral membrane protein
BB0808 hypothetical protein
BB0811 hypothetical protein
BB0812 pantothenate metabolism flavoprotein (dfp)
BB0813 hypothetical protein
BB0814 pantothenate permease (panF)
BB0815 conserved hypothetical protein
BB0821 2-methylthio-N6-isopentyladenosine tRNA modification (miaA)
BB0823 hypothetical protein
BB0826 hypothetical protein
BB0830 exonuclease SbcC (sbcC)
BB0835 phosphomannomutase (cpsG)
BB0836 excinuclease ABC, subunit B (uvrB)
BB0838 hypothetical protein
BB0840 hypothetical protein
BB0843.1 hypothetical protein, pseudogene
BB0845.1 hypothetical protein, pseudogene
BB0845.2 hypothetical protein, pseudogene
BB0847 hypothetical protein
BB0848 hypothetical protein
BB0848.1 hypothetical protein, pseudogene
BB0849.1 hypothetical protein, pseudogene
BB0849.2 hypothetical protein, pseudogene
BB0853 conserved hypothetical protein, authentic frameshift
BB0853.1 hypothetical protein, paralogous family 57, pseudogene
BB0853.2 hypothetical protein, pseudogene
BBA02 hypothetical protein
BBA04 antigen, S2
BBA05 antigen, S1
BBA06 hypothetical protein

BBA08	conserved hypothetical protein
BBA09	conserved hypothetical protein
BBA10	conserved hypothetical protein
BBA14	conserved hypothetical protein
BBA17	hypothetical protein
BBA24	decorin binding protein A (dbpA)
BBA25	decorin binding protein B (dbpB)
BBA26	hypothetical protein
BBA27	hypothetical protein
BBA28	hypothetical protein
BBA29	hypothetical protein
BBA31	conserved hypothetical protein
BBA38	hypothetical protein
BBA44	hypothetical protein
BBA45	conserved hypothetical protein
BBA48	hypothetical protein
BBA49	hypothetical protein
BBA50	hypothetical protein
BBA53	hypothetical protein
BBA54	hypothetical protein
BBA56	hypothetical protein
BBA57	hypothetical protein
BBA58	hypothetical protein
BBA63	hypothetical protein
BBA65	hypothetical protein
BBA66	antigen, P35, putative
BBA71	hypothetical protein
BBA72	hypothetical protein
BBA75	hypothetical protein
BBB01	conserved hypothetical protein
BBB02	hypothetical protein
BBB03	hypothetical protein
BBB04	PTS system, cellobiose-specific IIC component (celB)
BBB05	PTS system, cellobiose-specific IIA component (celC)
BBB06	PTS system, cellobiose-specific IIB component (celA)
BBB07	outer surface protein, putative
BBB08	hypothetical protein
BBB09	hypothetical protein
BBB11	conserved hypothetical protein
BBB12	plasmid partition protein, putative
BBB13	conserved hypothetical protein
BBB15	hypothetical protein
BBB20	hypothetical protein
BBB21	hypothetical protein
BBB26	hypothetical protein
BBC01	conserved hypothetical protein

BBC02	conserved hypothetical protein
BBC03	conserved hypothetical protein
BBC05	conserved hypothetical protein
BBC06	exported protein A (eppA)
BBC07	hypothetical protein
BBC10	rev protein (rev)
BBD001	conserved hypothetical protein
BBD01	hypothetical protein, paralogous family 76
BBD02	hypothetical protein
BBD05.1	conserved hypothetical protein, pseudogene
BBD06	hypothetical protein
BBD12	hypothetical protein
BBD14	conserved hypothetical protein
BBD15	hypothetical protein, paralogous family 85
BBD16	hypothetical protein
BBD19	hypothetical protein
BBD20	transposase-like protein, authentic frameshift
BBD21	plasmid partition protein, putative
BBD23	transposase-like protein, authentic frameshift
BBD24	hypothetical protein
BBD25	hypothetical protein
BBE01	hypothetical protein
BBE02	hypothetical protein
BBE03	hypothetical protein
BBE04	hypothetical protein
BBE04.1	protein p23, pseudogene
BBE05	hypothetical protein
BBE06	hypothetical protein
BBE07	pfs protein, pseudogene
BBE08	hypothetical protein
BBE09	protein p23
BBE10	hypothetical protein
BBE11	hypothetical protein
BBE12	hypothetical protein
BBE13	hypothetical protein
BBE14	hypothetical protein
BBE15	hypothetical protein
BBE16	hypothetical protein
BBE17	hypothetical protein
BBE18	conserved hypothetical protein
BBE19	plasmid partition protein, putative
BBE20	conserved hypothetical protein
BBE21.1	transposase-related protein, pseudogene
BBE22	pyrazinamidase/nicotinamidase (pncA)
BBE23	hypothetical protein
BBE23.1	hypothetical protein, authentic frameshift

BBE25	hypothetical protein
BBE26	hypothetical protein
BBE28	hypothetical protein
BBE29	adenine specific DNA methyltransferase, authentic frameshift
BBE29.1	conserved hypothetical protein, pseudogene
BBE32	conserved hypothetical protein, authentic frameshift
BBF001	conserved hypothetical protein, pseudogene
BBF02	conserved hypothetical protein
BBF03	conserved hypothetical protein
BBF04	hypothetical protein
BBF05	hypothetical protein
BBF06	conserved hypothetical protein
BBF08	hypothetical protein
BBF09	hypothetical protein, paralogous family 71, authentic frameshift
BBF10	hypothetical protein
BBF11	hypothetical protein
BBF11.1	conserved hypothetical protein, pseudogene
BBF12	conserved hypothetical protein, authentic point mutation
BBF13	plasmid partition protein, putative
BBF14	conserved hypothetical protein
BBF14.1	hypothetical protein, paralogous family 65, authentic frameshift
BBF17	hypothetical protein
BBF20	conserved hypothetical protein
BBF21	hypothetical protein
BBF23	conserved hypothetical protein
BBF24	plasmid partition protein, putative
BBF25	conserved hypothetical protein
BBF26.1	conserved hypothetical protein, pseudogene
BBF27	hypothetical protein
BBF28	hypothetical protein
BBF30	hypothetical protein
BBF32	vls recombination cassettes Vls2-Vls16, authentic frameshift
BBG01	hypothetical protein
BBG02	conserved hypothetical protein
BBG03	conserved hypothetical protein, authentic frameshift
BBG07	conserved hypothetical protein
BBG08	plasmid partition protein, putative
BBG10	hypothetical protein
BBG11	hypothetical protein
BBG13	hypothetical protein
BBG14	hypothetical protein
BBG15	hypothetical protein
BBG16	hypothetical protein
BBG17	hypothetical protein
BBG21	hypothetical protein
BBG22	hypothetical protein

BBG23	hypothetical protein
BBG25	conserved hypothetical protein
BBG26	hypothetical protein
BBG27	conserved hypothetical protein
BBG28	hypothetical protein
BBG30	hypothetical protein
BBG31	conserved hypothetical protein
BBG32	replicative DNA helicase, putative
BBG34	hypothetical protein
BBH01	conserved hypothetical protein
BBH02	conserved hypothetical protein
BBH03	hypothetical protein
BBH04	cdsD protein
BBH07	conserved hypothetical protein, authentic frameshift
BBH09	hypothetical protein
BBH09.1	conserved hypothetical protein, pseudogene
BBH10	hypothetical protein
BBH11	hypothetical protein
BBH11.1	conserved hypothetical protein, pseudogene
BBH12	hypothetical protein
BBH14	hypothetical protein
BBH15	hypothetical protein
BBH16	hypothetical protein
BBH17	hypothetical protein
BBH18	hypothetical protein
BBH18.1	conserved hypothetical protein, pseudogene
BBH19	hypothetical protein
BBH20.1	conserved hypothetical protein, pseudogene
BBH22	hypothetical protein
BBH24	hypothetical protein
BBH24.1	conserved hypothetical protein, pseudogene
BBH25	hypothetical protein
BBH29	conserved hypothetical protein
BBH30	conserved hypothetical protein, authentic frameshift
BBH31	hypothetical protein
BBH32	antigen, P35, putative
BBH33	hypothetical protein
BBH35	hypothetical protein
BBH36	hypothetical protein
BBH36.1	conserved hypothetical protein, pseudogene
BBH36.2	conserved hypothetical protein, pseudogene
BBH37	hypothetical protein
BBH38	hypothetical protein
BBH39	hypothetical protein
BBH40	transposase-like protein, putative
BBH41	conserved hypothetical protein

BBI01	hypothetical protein
BBI02	conserved hypothetical protein
BBI02.1	conserved hypothetical protein, pseudogene
BBI02.2	Brute Force ORF
BBI03	hypothetical protein
BBI04	hypothetical protein
BBI05	hypothetical protein
BBI06	5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase
BBI07	hypothetical protein
BBI08	hypothetical protein
BBI09	hypothetical protein
BBI10	hypothetical protein
BBI11	hypothetical protein
BBI12	hypothetical protein
BBI13	conserved hypothetical protein
BBI14	hypothetical protein
BBI15	hypothetical protein
BBI16	hypothetical protein
BBI17	hypothetical protein
BBI18	hypothetical protein
BBI20	conserved hypothetical protein
BBI21	plasmid partition protein, putative
BBI22	conserved hypothetical protein
BBI24	hypothetical protein
BBI25	hypothetical protein
BBI26	multidrug-efflux transporter
BBI27	hypothetical protein
BBI28	hypothetical protein
BBI30	hypothetical protein
BBI31	conserved hypothetical protein
BBI31.1	conserved hypothetical protein, pseudogene
BBI32	hypothetical protein
BBI34	hypothetical protein
BBI35	hypothetical protein
BBI36	antigen, P35, putative
BBI40	conserved hypothetical protein, pseudogene
BBI41	hypothetical protein
BBI42	outer membrane protein, putative
BBI43	conserved hypothetical protein
BBJ001	conserved hypothetical protein, pseudogene
BBJ01	hypothetical protein
BBJ02.1	conserved hypothetical protein, pseudogene
BBJ03	hypothetical protein
BBJ04	hypothetical protein
BBJ06	hypothetical protein
BBJ07	hypothetical protein

BBJ07.1	conserved hypothetical protein, pseudogene
BBJ11	hypothetical protein
BBJ12.1	hypothetical protein, paralogous family 124, pseudogene
BBJ13	hypothetical protein
BBJ15	hypothetical protein
BBJ15.1	conserved hypothetical protein, pseudogene
BBJ17	plasmid partition protein, putative
BBJ18	conserved hypothetical protein
BBJ20	hypothetical protein
BBJ21	hypothetical protein
BBJ21.1	conserved hypothetical protein, pseudogene
BBJ23	hypothetical protein
BBJ25	hypothetical protein
BBJ26	ABC transporter, ATP-binding protein
BBJ27	hypothetical protein
BBJ28	hypothetical protein
BBJ29	hypothetical protein
BBJ31	hypothetical protein
BBJ32	hypothetical protein
BBJ33	hypothetical protein
BBJ35	hypothetical protein
BBJ36	hypothetical protein
BBJ37	hypothetical protein
BBJ38	hypothetical protein
BBJ39	hypothetical protein
BBJ40	hypothetical protein
BBJ42	hypothetical protein
BBJ44	hypothetical protein
BBJ46	hypothetical protein
BBJ47	hypothetical protein
BBJ48	hypothetical protein
BBK02	hypothetical protein
BBK02.1	conserved hypothetical protein, pseudogene
BBK03	hypothetical protein
BBK04	hypothetical protein
BBK05	hypothetical protein
BBK07	hypothetical protein
BBK08	hypothetical protein
BBK09	hypothetical protein
BBK12	hypothetical protein
BBK14	hypothetical protein
BBK15	antigen, P35, putative
BBK20	hypothetical protein
BBK21	plasmid partition protein, putative
BBK24.1	hypothetical protein
BBK25	transposase-like protein, authentic frameshift

BBK25.1 conserved hypothetical protein, pseudogene
BBK26 hypothetical protein
BBK27 hypothetical protein
BBK28 hypothetical protein
BBK29 hypothetical protein
BBK31 hypothetical protein
BBK32 immunogenic protein P35
BBK33 hypothetical protein
BBK35 hypothetical protein
BBK36 hypothetical protein
BBK37 immunogenic protein P37, authentic frameshift
BBK38 hypothetical protein
BBK42 hypothetical protein
BBK42.1 conserved hypothetical protein, pseudogene
BBK43 hypothetical protein
BBK44 hypothetical protein
BBK46 immunogenic protein P37, authentic frameshift
BBK49 hypothetical protein
BBK50 immunogenic protein P37
BBK51 hypothetical protein
BBK52 protein p23
BBK52.1 conserved hypothetical protein, pseudogene
BBK54 conserved hypothetical protein
BBL14 hypothetical protein
BBL18 hypothetical protein
BBL27 conserved hypothetical protein
BBL30 conserved hypothetical protein
BBL33 hypothetical protein
BBL34 conserved hypothetical protein
BBL36 conserved hypothetical protein
BBL41 hypothetical protein
BBL42 hypothetical protein
BBL43 conserved hypothetical protein
BBM04 hypothetical protein
BBM10 conserved hypothetical protein
BBM14 hypothetical protein
BBM16 hypothetical protein
BBM18 hypothetical protein
BBM27 rev protein (rev)
BBM33 conserved hypothetical protein
BBM37 conserved hypothetical protein
BBM39 hypothetical protein
BBM40 hypothetical protein
BBM42 conserved hypothetical protein
BBN16 hypothetical protein, paralogous family 157, authentic frameshift
BBN18 hypothetical protein, paralogous family 160, authentic point mutation

BBN29	hypothetical protein, paralogous family 161, authentic point mutation
BBN33	conserved hypothetical protein
BBN36	conserved hypothetical protein
BBN37	hypothetical protein, paralogous family 96, authentic point mutation
BBN40	hypothetical protein
BBN43	conserved hypothetical protein
BBO01	hypothetical protein
BBO15	hypothetical protein
BBO17	hypothetical protein
BBO18	hypothetical protein
BBO29	hypothetical protein
BBO32	plasmid partition protein, putative
BBO34	conserved hypothetical protein
BBO35	hypothetical protein
BBO37	conserved hypothetical protein
BBO40	erpM protein (erpM)
BBO42	hypothetical protein
BBO43	hypothetical protein
BBP16	hypothetical protein
BBP18	hypothetical protein
BBP25	conserved hypothetical protein
BBP27	rev protein (rev)
BBP40	hypothetical protein
BBP42	conserved hypothetical protein
BBQ01	conserved hypothetical protein
BBQ02	hypothetical protein
BBQ03	outer membrane protein, putative
BBQ05	antigen, P35, putative
BBQ08	plasmid partition protein, putative
BBQ09	conserved hypothetical protein
BBQ10	hypothetical protein
BBQ18	hypothetical protein
BBQ19	hypothetical protein
BBQ23	hypothetical protein
BBQ34	conserved hypothetical protein
BBQ36	hypothetical protein
BBQ38	conserved hypothetical protein
BBQ39	conserved hypothetical protein
BBQ41	conserved hypothetical protein
BBQ43	conserved hypothetical protein
BBQ45	conserved hypothetical protein
BBQ46	hypothetical protein
BBQ47	erpX protein (erpX)
BBQ49	hypothetical protein
BBQ54	hypothetical protein
BBQ55	hypothetical protein

BBQ56	hypothetical protein
BBQ58	hypothetical protein
BBQ61	hypothetical protein
BBQ62	hypothetical protein
BBQ65	conserved hypothetical protein, pseudogene
BBQ66	hypothetical protein
BBQ68	hypothetical protein
BBQ69	hypothetical protein, family 115 paralog, pseudogene
BBQ70	hypothetical protein
BBQ71	multidrug efflux transporter, pseudogene
BBQ72	hypothetical protein
BBQ73	conserved hypothetical protein, pseudogene
BBQ74	conserved hypothetical protein, pseudogene
BBQ75	conserved hypothetical protein, pseudogene
BBQ76	hypothetical protein
BBQ77	transposase-like protein, pseudogene
BBQ78	hypothetical protein
BBQ79	hypothetical protein, pseudogene
BBQ81	conserved hypothetical protein, pseudogene
BBQ82	hypothetical protein
BBQ84	hypothetical protein
BBQ84.1	pseudogene
BBR15	hypothetical protein
BBR20	conserved hypothetical protein
BBR30	hypothetical protein
BBR33	plasmid partition protein, putative
BBR35	conserved hypothetical protein, authentic point mutation
BBR37	conserved hypothetical protein
BBR39	hypothetical protein
BBR40	erpH protein (erpH)
BBR43	hypothetical protein
BBR44	hypothetical protein
BBR45	conserved hypothetical protein
BBS18	hypothetical protein
BBS27	hypothetical protein
BBS28	hypothetical protein
BBS33	conserved hypothetical protein
BBS40	conserved hypothetical protein
BBS42	associated protein A (bapA)
BBS43	hypothetical protein
BBT01	hypothetical protein
BBT02	conserved hypothetical protein
BBT03	hypothetical protein
BBT04	conserved hypothetical protein
BBT05	hypothetical protein, family 57 paralog, pseudogene
BBT06	conserved hypothetical protein

BBU02	hypothetical protein
BBU03	hypothetical protein
BBU04	conserved hypothetical protein
BBU05	plasmid partition protein, putative
BBU11	conserved hypothetical protein
BBU12	conserved hypothetical protein, authentic frameshift

Supplementary Table 2. Oligonucleotides used in this study

Oligonucleotide	Sequence (5' → 3')
General <i>rrp1</i> primers	
BB0420F3135 (1)	TGTGCGCTATGTAGCGTCTTTTG
BB0420R3435 (2)	TGGAACCAAATCCTCAAAATCC
BB0420F4277 (3)	CCTTCTCAACAACTTTTAATTG
BB0419R199 (4)	GACCTATGTCAAGAAGTATAAG
BB0419F113 (5)	ACGAGATTGAGGTTGCAACAAATG
BB0419R459 (6)	TGGAATTTGAGTAAGCCCATC
BB0419F_LIC (7)	GACGACGACAAGATGGAAATGATAATTAAGATAAAGC
BB0419R_LIC (8)	GAGGAGAAGCCCGGTTTAATATCTAAACTGATTTCTTCCAG
BB0419F-RT (9)	TTGAGGTTGCAACAAATGGA
BB0419R-RT (10)	CGGGATCGCTTTTTAGCTTT
419KO-upF (11)	GCCCATTAATGTTTTAATAGCTGA
419KO-upR (12)	ACCGGTCTAGACGTCTTTATCTTTAATTATCATTTCCACTGT
419KO-dnF (13)	GACGTCCTGGAAGAAATCAGTTTAGATAATAAA
419KO-dnR (14)	ACCGGTGCTTATTATCCTCCCCACGAG
spec/strep F (15)	TGATTTGCTGGTTACGGTGA
spec/strep R (16)	ATTTGCCGACTACCTTGGTG
aad1-5'-R (17)	TCCTTGAAGCTCGGGTATTA
pKFSS1-3'F (18)	GGCGAGATCACCAAGGTAGTC
KOverifyUp F (19)	CTTTAATGGGGCTTGGTATATGC
Real time RT-PCR primers	
BB0167QF	TTGGAAGAAGAGATGCACGA
BB0167QR	TGGTTTTTGAGATCCCCATC
BBO241QF	ATTTGGACAAGCCTGCCTTA
BBO241QR	TTCCCCATGCAATTGAAGTT
BBO242QF	TGTTTGGCAAGCAAATAAATCA
BB0242QR	TGCTCCAATGAATTTTACCTTTT
BB0243QF	TGCGGTAGACGCAATTACAA
BB0243QR	CGCGCAAAGCTTCTTTAACT
BB0367QF	AGAGCATATTGTAGAATGCTTCG
BB0367QR	TTTTTGTTAAATCGTCTCTTTTGA
BB0420QF	TGGCAAGTCGAATACCCTCT
BB0420QR	TGTTTCGATTTTATTGGGATGC
BB0450QF	TGTTTTTGCTCCACCAACAG
BB0450QR	AGGCCAATGAACTTGAGCAT
BB0596QF	GCCCATCATCAGAGAACCTT
BB0596QR	CAAGCGTTGAACAGTCCTCA
BB0629QF	TTCCTCCTGCCATTATGCTT
BB0629QR	AGCTTTGCTTGGAGGAATGA
BB0683QF	AGGCGTTGATCATTCAAAGG
BB0683QR	GCAAAGACATAGCAGCACCA

BB0687QF	TTGGTTCAAGTGCTGTCGTT
BB0687QR	CCACTGCCTATTCCTCCTTG
BB0769QF	AGCCTCTCCACAAGCATCAT
BB0769QR	AGCCTCTCCACAAGCATCAT
BB0771QF	TCGGGTCATATTTTTCAGCA
BB0771QR	AGGCAATGCAAAAGCAAAAA
BBA30QF	GACCTGGCAGAAGAAAGCAC
BBA30QR	CCTTTCAGCCTCATTTTTGG
BBB16QF	GCCAAATGTTTCTTGGCATT
BBB16QR	TCGGCAGTAATGGAAACTCC
BBB17QF	TTTCGGGTTTTTGTCTATTT
BBB17QR	CCATTGCTAAAGAGGGTGGA
BBB18QF	AAGCAATGCGCAAATAAAGA
BBB18QR	TAAAATTTGCCAAGCCCAAA
BBB19QF	GAAAGAGGTTGAAGCGTTGC
BBB19QR	ATTGCATAAGCTCCCGCTAA
BBH06QF	CCCCCTCAAGTTCTACAGCA
BBH06QR	TTGAGTGTATTGTGAAAATAATTGGA
BBN38QF	CAATGACTAAAGGCGGATCAT
BBN38QR	ACGCAATATGTTTCAGCACCA
BBL39QF	TGATGAGCAAAGCAATGGAG
BBL39QR	AAACCCGTTTCAATACCATCTTT
BBA68QF	GCGCACCTTTTAGCAAAAATC
BBA68QR	GCTCTGAAGCGATAGTTTCCAT
BBM38QF	CCAGAAGCAAAAGTTCAACCA
BBM38QR	TCAGCAACACCTTGAACCAC
BBO39QF	GCAAAGAAAAAGGGGGAGAG
BBO39QR	GCCTTGAGTTTTCCAGTTG
BBR42QF	AAAACCAAGCTGAATCTGCAA
BBR42QR	CCCCAACTATTAGCACACTGC

Plasmid-specific primers

BBA16F	GCACAAAAAGGTGCTGAG
BBA16R	CACTTGCTGATCCTTCAG
BBB19F	AATAATTCAGGGAAAGATGGG
BBB19R	AGGTTTTTTTTGGACTTTCTGCC
BBC10F	GAACTATTTATAATAAAAAGGAGAGC
BBC10R	ATCTTCTTCAAGATATTTTATTATAC
BBD21F	CTACCTTAAGCGGAAATATTGC
BBD21R	GAATAATTCTTCGCTCCCAAAGCTC
BBE16F	ATGGGTAAAATATTATTTTTGGG
BBE16R	AAGATTGTATTTTGGCAAAAAATTTTC
BBF20F	ATGAACAAAAAATTTTCTATTTC
BBF20R	GTTGCTTTTGCAATATGAATAGG
BBG02F	TCCCTAGTTCTAGTATCTACTAGACCG
BBG02R	TTTTTTTTGTATGCCAATTGTATAATG

BBH28F	GGCTTCAATTAAGGGAGGAG
BBH28R	CACAATATAATCCGCAACATTC
BBI26F	GCAAGGACTTTGCCACATGCTG
BBI26R	CGAAATAGCACATAGATAATTCC
BBJ34F	AAATTCTATGGAAGTGATG
BBJ34R	TTTATCTTTATTTTTAGGC
BBK19F	AAGTTTATGTTTATTATTCG
BBK19R	ATTGTTAGGTTTTTCTTTTCC
BBL32/33F	GAAGATTTAAACAAAAAATTGCG
BBL32/33R	GTAATCACTTCTTTTTTACCATCG
BBM32F	GACTTTACATAGTATAAATGCTTTTGG
BBM32R	TCTCGTTATTATAAAATAAGTAGG
BBN32/33F	TATCAAAAAAGTGCTGTTTTATAG
BBN32/33R	TAATCTCAAATATTCTTCTTTATG
BBO32F	GGAATGTATTAATTGATAATTCAG
BBO32R	GCGAAATAAATAGTGCCTTATGGG
BBP33F	ACGATAGGGTAATATCAAAAAAGG
BBP33R	AGTTCATCTAATAAAAAATCCCGTG
BBQ47F	AAGATTGATGCAACTGGTAAAG
BBQ47R	CTGACTGTAAGTATGTATCC
BBR33F	AGATCCTCAAATAGTTTAACCAG
BBR33R	TTAATATTGGCAGAGAGTCTACAG
BBS53F	TTACGAAAAAATAGAAAAACTAGG
BBS53R	TTTCCACTGCCCACTTTTCAGCCG
LP5F	CTTGCTTTAAGCCCTATTTTAC
LP5R	GCACACTACCCATTTTTGAATC
BBU21F	AGTAAAGGAGTTCTGCAAAAATT
BBU21R	GTTGTCACCTCGTGTAATATG
