Table 5. Genes with significantly altered expression only in the *rpoS* mutant relative to WT (regulatory group 2).

			Ratio,					Potential to cross-	Paralog. family		Tagman
ORF	Name	Description	rpoS/WT	SE*	$P^{\dagger}$	Main role	Subrole	hybridize <sup>‡</sup>	no.	Rank <sup>§</sup>	ratio <sup>¶</sup>
BB0039		Hypothetical protein	1.79	0.28	0.005	Hypothetical proteins				89	
BB0066		Hypothetical protein	0.73	0.06	0.005	Hypothetical proteins				33	
BB0070		Conserved hypothetical protein	0.68	0.05	8E-04	Hypothetical proteins - Conserved	Conserved			11	
BB0071		Hypothetical protein	0.70	0.08		Hypothetical proteins				25	
BB0090		V-type ATPase, subunit K, putative	0.69	0.07		Energy metabolism	ATP-proton motive force interconversion			15	
BB0103		Hypothetical protein	0.79	0.03	0.001	Hypothetical proteins				50	
BB0106		Hypothetical protein	1.45	0.15	0.005	Hypothetical proteins				67	
BB0132	greA	1 5	0.80			Transcription	Transcription factors			52	
BB0183		Conserved hypothetical protein	0.77	0.04	0.003	Hypothetical proteins - Conserved	Conserved			46	
BB0214	efp	Translation elongation factor P	1.48	0.12	0.003	Protein synthesis	Translation factors			68	
BB0222	pgl	6-phosphogluconolactonase	0.71	0.02	2E-05	Energy metabolism	Pentose phosphate pathway			26	
BB0229	rpmE	Ribosomal protein L31	1.64	0.19	0.003	Protein synthesis	Ribosomal proteins: synthesis and modification			82	
BB0249		Phosphatidyltransferase	0.75	0.05	0.002	Fatty acid and phospholipid metabolism	Biosynthesis			36	
BB0250	dedA	DedA protein	0.75	0.05	0.003	Unknown function	General			38	
BB0256	rpsU	Ribosomal protein S21	1.67	0.25	0.013	Protein synthesis	Ribosomal proteins: synthesis and modification			86	
BB0273	fliR	Flagellar biosynthesis protein	0.73	0.03	1E-04	Cellular processes	Chemotaxis and motility			31	
BB0274	fliQ	Flagellar biosynthesis protein	0.78	0.03	6E-04	Cellular processes	Chemotaxis and motility			48	
BB0277	fliN	Flagellar motor switch protein	0.62	0.06	7E-04	Cellular processes	Chemotaxis and motility			4	
BB0280	motB	Flagellar motor rotation protein B	1.41	0.11	0.002	Cellular processes	Chemotaxis and motility			63	
BB0319	tpn38b	Exported protein	0.76	0.05	0.004	Cell envelope	Other			43	
BB0336		P26	1.49	0.12	0.004	Unknown function	General			70	
BB0340		Hypothetical protein	1.35	0.07	1E-04	Hypothetical proteins				59	
BB0376	metK	S-adenosylmethionine synthetase	0.70			Central intermediary metabolism	Other			20	
BB0418		Hypothetical protein	0.67	0.06	0.004	Hypothetical proteins				9	

BB0454		Lipopolysaccharide biosynthesis- related protein	0.74	0.04	3E-04	Unknown function	General		35	
BB0518	dnaK- 2	•	1.40	0.15	0.021	Protein fate	Protein folding and stabilization	9	62	
BB0525	_	Conserved hypothetical protein	1.36	0.08	9E-04	Hypothetical proteins - Conserved	Conserved		60	
BB0565	cheW- 2	Purine-binding chemotaxis protein	0.77	0.05	0.003	Cellular processes	Chemotaxis and motility	33	45	
BB0567	cheA-1	Chemotaxis histidine kinase	0.79	0.03	2E-04	Cellular processes	Chemotaxis and motility	134	49	
BB0575	pyrG	CTP synthase	0.73	0.05	8E-04	Purines, pyrimidines, nucleosides, and nucleotides	Pyrimidine ribonucleotide biosynthesis		34	
BB0581	recG	DNA recombinase	0.75	0.06	0.01	DNA metabolism	DNA replication, recombination, and repair	20	37	
BB0586	femA	FemA protein	0.80	0.04	0.006	Cell envelope	Biosynthesis of murein sacculus and peptidoglycan		51	
BB0587	metG	Methionyl-tRNA synthetase	0.70	0.04	1E-04	Protein synthesis	tRNA aminoacylation	126	23	
BB0606		Conserved hypothetical protein	0.77	0.06	0.012	Hypothetical proteins - Conserved	Conserved		44	
BB0614		Hypothetical protein	0.78	0.04	4E-04	Hypothetical proteins			47	
BB0618	cdd	Cytidine deaminase	1.77	0.14	3E-05	Purines, pyrimidines, nucleosides, and nucleotides	Salvage of nucleosides and nucleotides		88	1.24
BB0619		Conserved hypothetical protein	1.28	0.08	0.004	Hypothetical proteins - Conserved	Conserved		57	
BB0621	thiJ	4-methyl-5(b-hydroxyethyl)- thiazole monophosphate biosynthesis protein	2.49	0.30	2E-04	Biosynthesis of cofactors, prosthetic groups, and carriers	Thiamine		93	1.21
BB0628		Conserved hypothetical protein	1.67	0.13	8E-04	Hypothetical proteins - Conserved	Conserved		85	1.14
BB0638	nhaC- 2	Na+/H+ antiporter	0.72	0.07	0.011	Transport and binding proteins	Cations	135	28	
BB0639	potD	Spermidine/putrescine ABC transporter, spermidine/putrescine-binding periplasmic protein	0.68	0.06	0.002	Transport and binding proteins	Amino acids, peptides and amines		12	
BB0648		Serine/threonine kinase, putative	0.70			Protein fate	Protein modification and repair		21	
BB0663		Hypothetical protein	0.73			Hypothetical proteins			32	
BB0676	gph	Phosphoglycolate phosphatase	1.68	0.17	0.003	Energy metabolism	Sugars		87	

BB0680 r	mcp-4	Methyl-accepting chemotaxis protein	0.55	0.06	6E-04	Cellular processes	Chemotaxis and motility		13	1	
BB0696		Conserved hypothetical protein	0.72	0.08	0.021	Hypothetical proteins - Conserved	Conserved			29	
BB0728 BB0732	nox pbp-3	NADH oxidase, water-forming Penicillin-binding protein	0.71 0.75			Energy metabolism Cell envelope	Aerobic Biosynthesis of murein sacculus and peptidoglycan			27 39	0.87
BB0754		ABC transporter, ATP-binding protein	0.69	0.06	0.004	Transport and binding proteins	Unknown substrate		4	19	
BB0758		Lipoprotein, putative	0.76	0.04	8E-04	Cell envelope	Other			41	
BB0791	tdk	Thymidine kinase	0.67			Purines, pyrimidines, nucleosides, and nucleotides	Salvage of nucleosides and nucleotides			10	
BB0810		Virulence factor mviN protein (mviN)	0.68	0.06	0.005	Cellular processes	Pathogenesis			13	
BB0815		Conserved hypothetical protein	0.69	0.03	2E-04	Hypothetical proteins - Conserved	Conserved		45	17	
BB0840		Lipoprotein, putative	0.61	0.04	6E-04	Cell envelope	Other			2	0.98
BBA12		Conserved hypothetical protein	1.65	0.29	0.025	Hypothetical proteins - Conserved	Conserved			84	
BBA22		Hypothetical protein	1.50	0.19	0.018	Hypothetical proteins				71	
BBA23		Conserved hypothetical protein	1.56	0.17	0.004	Hypothetical proteins - Conserved	Conserved		144	77	
	dbpA		0.62	0.06	0.003	Cell envelope	Other		74	3	
BBB03		Hypothetical protein	0.67	0.07	0.013	Hypothetical proteins				7	
BBB13		Conserved hypothetical protein	0.70	0.06	0.006	Hypothetical proteins - Conserved	Conserved		49	22	
BBD06		Conserved hypothetical protein	0.72	0.06	0.005	Hypothetical proteins - Conserved	Conserved		73	30	
BBD13		Hypothetical protein	0.66	0.05	1E-03	Hypothetical proteins - Conserved	Conserved			6	
BBE22	pncA	Pyrazinamidase/nicotinamidase	2.17	0.19	4E-05	Cellular processes	Toxin production and resistance			92	1.19
BBE23. 2		Hypothetical protein, authentic point mutation	1.98	0.27	0.006	Hypothetical proteins - Conserved	Conserved		32	91	
BBF32		VIs recombination cassettes VIs2- VIs16, authentic frameshift	1.90	0.22	0.002	Cell envelope	Other		170	90	
BBG06		Conserved hypothetical protein	1.58	0.10	2E-05	Hypothetical proteins - Conserved	Conserved		73	79	
BBG19 BBI11		Hypothetical protein Hypothetical protein	0.85 1.63			Hypothetical proteins Hypothetical proteins		+	117	55 80	

BB118     Hypothetical protein     1.58     0.18     0.003     Hypothetical proteins     78       BB119     Conserved hypothetical protein     2.64     0.24     6E-05     Hypothetical proteins     Conserved     73     94       BB121     Plasmid partition protein, putative     1.28     0.06     4E-04     Cell division     32     56       BB136     Antigen, P35, putative     1.50     0.16     0.01     Cell envelope     Biosynthesis and degradation of surface polysaccharides and lipopolysaccharides     +     54     72       BB141     Hypothetical protein     1.52     0.14     0.003     Hypothetical proteins     -     53       BB142     Hypothetical protein     1.53     0.21     0.022     Hypothetical protein     53       BB143     Hypothetical protein     1.53     0.21     0.028     Hypothetical protein     53       BB140     erpb2 protein     0.80     0.03     1.40     1.400     Coll Hypothetical protein     66     76       BB140     erpb2 protein     0.76     0.05     0.008 <th>BBI12</th> <th></th> <th>Hypothetical protein</th> <th>1.51</th> <th></th> <th></th> <th>Hypothetical proteins</th> <th></th> <th></th> <th></th> <th>73</th>	BBI12		Hypothetical protein	1.51			Hypothetical proteins				73
BBI21     Plasmid partition protein, putative     1.28     0.06     4E-04     Conserved     Cell division     32     56       BBI36     Antigen, P35, putative     1.50     0.16     0.011     Cell envelope     Biosynthesis and ipopolysaccharides and ipopolysaccharides     +     54     72       BBI41     Hypothetical protein     1.52     0.14     0.003     Hypothetical proteins     -     53       BBK36     Hypothetical protein     1.53     0.21     0.008     Cell envelope     Other     +     66     76       BBK36     Hypothetical protein     1.53     0.21     0.008     Coll envelope     Other     +     66     76       BBK36     Hypothetical protein     0.69     0.08     0.08     Hold envelope     Other     +     163     18       BBM16     Hypothetical protein     0.66     0.06     0.06     Ox06     Trapse     Other     +     143     54       BBN26     Outer surface protein     1.53     0.01     EE-05     Hypothetical proteins	BBI18		Hypothetical protein	1.58							78
BBI21Plasmid partition protein, putative1.280.064E-04Cellular processesCell division3256BB136Antigen, P35, putative1.500.160.11Cell envelopeBiosynthesis and degradation of surfaces and lipopolysaccharides and lipopolysaccharides+5472BB141Hypothetical protein1.520.140.003Hypothetical proteins-6274BB139Hypothetical protein1.530.110.002Hypothetical proteins-6676BB138ErpA protein1.530.110.002Hypothetical proteins-6676BB141ErpA protein0.690.080.018Cell envelopeOther+16318BB139erpAErpA protein0.690.060.006Cell envelopeOther+14354BB141Hypothetical protein0.650.060.006Cell envelopeOther+14354BB142Hypothetical protein0.650.060.06ConservedConserved+13975BB022Conserved hypothetical protein1.530.106E-05Hypothetical proteinsConserved+14258BB023blyAPore-forming hemolysin1.640.190.05ConservedConserved+14258BB024erpM protein0.660.070.08ConservedConserved-1638<	BBI19		Conserved hypothetical protein	2.64	0.24	6E-05		Conserved		73	94
BBI41Hypothetical protein1.520.140.003Hypothetical proteins8274BBJ25Hypothetical protein0.800.033E-04Hypothetical proteins53BBK36Hypothetical protein1.530.22Hypothetical proteins+6676BBL40erp82Erp3 protein1.370.110.006Cell envelopeOther+16318BBM16Hypothetical protein0.690.080.018Cell envelopeOther+16318BBM28IpLipoprotein0.650.008Hypothetical proteins-15740BBN28IpLipoprotein0.650.006Cell envelopeOther+14354BBN28IpLipoprotein0.650.06Cell envelopeOther+14354BBN26Outer surface protein, putative0.810.040.003Cell envelopeOther+14354BBN28IpLipoprotein0.650.06Cell envelopeOther+14354BBN28IpLipoprotein1.530.106E-05Hypothetical proteins-15769BBO21Conserved hypothetical protein1.530.00Cell envelopeTokin production and+14258BBO23blyAPore-forming hemolysin1.640.190.05Cellular processesConserved2016BBO23conse	BBI21		Plasmid partition protein, putative	1.28	0.06	4E-04		Cell division		32	56
BBI41   Hypothetical protein   1.52   0.14   0.003   Hypothetical proteins   52   74     BB.25   Hypothetical protein   0.60   0.03   3E-04   Hypothetical proteins   53     BBK36   Hypothetical protein   1.53   0.21   0.22 Hypothetical proteins   +   66   76     BBL39   erpA   ErpA protein   0.69   0.08   0.018   Cell envelope   Other   +   163   18     BBN26   Hypothetical protein   0.76   0.06   0.08   Hypothetical protein   157   40     BN26   Outer surface protein, putative   0.81   0.04   0.003   Cell envelope   Other   +   143   54     BN26   Ip   Lipoprotein   0.65   0.06   0.06   Cell envelope   Other   +   139   75     BB019   Conserved hypothetical protein   1.53   0.06   0.005   Hypothetical proteins   Conserved   +   142   58     BB023   blyA   Pore-forming hemolysin   1.64   0.19   0.05   Celluar processes   Coxin	BBI36		Antigen, P35, putative	1.50	0.16	0.011	Cell envelope	degradation of surface polysaccharides and	+	54	72
BBK36   Hypothetical protein   1.53   0.21   0.022   Hypothetical proteins   +   66   76     BBL30   erpA   ErpA protein   1.37   0.11   0.006   Cell envelope   Other   162   61     BBL40   erpB2   ErpB2 protein   0.69   0.08   0.018   Cell envelope   Other   +   163   18     BBN26   Outer surface protein   0.76   0.05   0.008   Hypothetical protein   157   40     BBN26   Outer surface protein   0.65   0.06   0.006   Cell envelope   Other   +   143   54     BB019   Conserved hypothetical protein   1.49   0.16   0.011   Hypothetical proteins   157   69     BB022   Conserved hypothetical protein   1.34   0.08   0.003   Hypothetical proteins - Conserved   +   142   58     BB023   blyA   Pore-forming hemolysin   1.64   0.19   0.05   Cellular processes   Toxin production and resistance   +   142   58     BB023   ErpM protein   0.69   0.07	BBI41		Hypothetical protein	1.52	0.14	0.003	Hypothetical proteins			82	74
BBK36   Hypothetical protein   1.53   0.21   0.022   Hypothetical proteins   +   66   76     BBL30   erpA   ErpA protein   1.37   0.11   0.006   Cell envelope   Other   162   61     BBL40   erpB2   ErpB2 protein   0.69   0.08   0.018   Cell envelope   Other   +   163   18     BBN26   Outer surface protein, putative   0.81   0.04   0.003   Cell envelope   Other   +   143   54     BN26   Duter surface protein   0.65   0.06   0.006   Cell envelope   Other   +   133   5     BR019   Conserved hypothetical protein   1.49   0.16   0.011   Hypothetical proteins   Conserved   +   139   75     BB022   Conserved hypothetical protein   1.53   0.10   6E-05   Hypothetical proteins   Conserved   +   142   58     BB023   blyA   Pore-forming hemolysin   1.64   0.19   0.05   Cellular processes   Toxin production and resistance   +   109   81  <	BBJ25		Hypothetical protein	0.80	0.03	3E-04	Hypothetical proteins				53
BBL39   erpA   ErpA protein   1.37   0.11   0.006   Cell envelope   Other   162   61     BBL40   erpB2   ErpB2 protein   0.69   0.08   0.18   Cell envelope   Other   +   163   18     BBM16   Hypothetical protein   0.76   0.05   0.008   Hypothetical protein   157   40     BBN28   Ip   Lipoprotein   0.65   0.06   Coll envelope   Other   +   143   54     BBN28   Ip   Lipoprotein   0.65   0.06   Coll envelope   Other   133   5     BBO16   Hypothetical protein   1.49   0.16   0.01   Hypothetical proteins- conserved   Conserved   +   139   75     BBO22   Conserved hypothetical protein   1.34   0.08   0.003   Hypothetical proteins- conserved   Conserved   +   142   58     BBO23   blyA   Pore-forming hemolysin   1.64   0.19   0.05   Cell arvelope   Conserved   +   149   16     BBO33   conserved hypothetical protein   <	BBK36		, · · · ·	1.53					+	66	76
BBL40   erpB2   ErpB2 protein   0.69   0.08   0.018   Cell envelope   Other   +   163   18     BBN16   Hypothetical protein   0.76   0.05   0.008   Cell envelope   Other   +   163   18     BBN26   Outer surface protein, putative   0.81   0.04   0.003   Cell envelope   Other   +   143   54     BB016   Hypothetical protein   0.65   0.06   0.006   Cell envelope   Other   +   143   5     BB016   Hypothetical protein   1.53   0.16   0.011   Hypothetical proteins   157   69     BB022   Conserved hypothetical protein   1.53   0.06   60.03   Hypothetical proteins   Conserved   +   142   58     BB023   blyA   Pore-forming hemolysin   1.64   0.19   0.05   Cellular processes   Toxin production and resistance   +   109   81     BB033   Conserved hypothetical protein   0.67   0.07   0.004   Hypothetical proteins - Conserved   Conserved   Cellular processes   Cell division		erpA						Other			
BBM16   Hypothetical protein   0.76   0.05   0.008   Hypothetical proteins   157   40     BBN26   Outer surface protein, putative   0.81   0.04   0.003   Cell envelope   Other   +   143   54     BBN26   Lipoprotein   0.65   0.06   0.006   Cell envelope   Other   113   5     BB016   Hypothetical protein   1.49   0.16   0.011   Hypothetical proteins   157   69     BB019   Conserved hypothetical protein   1.53   0.10   6E-05   Hypothetical proteins - Conserved   Conserved   +   142   58     BB022   Conserved hypothetical protein   1.53   0.00   Hypothetical proteins - Conserved   Conserved   +   142   58     BB023   blyA   Pore-forming hemolysin   1.64   0.19   0.05   0.004   Hypothetical proteins - Conserved   Foxin production and resistance   +   109   81     BB033   Conserved hypothetical protein   0.67   0.07   0.008   Cell envelope   Other   163   8     BBP32   Plasmid partiti	BBL40	•	• •		0.08		•	Other	+	163	
BBN26Outer surface protein, putative0.810.040.003Cell envelopeOther+14354BN28IpLipoprotein0.650.060.006Cell envelopeOther1135BBO16Hypothetical protein1.490.160.011Hypothetical proteins15769BBO19Conserved hypothetical protein1.530.106E-05Hypothetical proteins - ConservedConserved+14258BBO22Conserved hypothetical protein1.340.080.003Hypothetical proteins - ConservedConserved+14258BBO33Pore-forming hemolysin1.640.190.005Cellular processesToxin production and resistance+10981BBO40erpMErpM protein Plasmid partition protein, putative0.670.070.008Cell unvelopeOther1638BBO23blyAPore-forming hemolysin1.640.190.001Cellular processesConserved4916BBO33Conserved hypothetical protein Plasmid partition protein, putative0.670.070.008Cell envelopeOther1638BBO23BBQ27Conserved hypothetical protein1.650.170.003Hypothetical proteins - ConservedConserved+14083BBQ33Hypothetical protein1.440.110.002Hypothetical proteins - ConservedConserved+14866 <tr< td=""><td>BBM16</td><td>•</td><td>• •</td><td>0.76</td><td>0.05</td><td>0.008</td><td>Hypothetical proteins</td><td></td><td></td><td>157</td><td>40</td></tr<>	BBM16	•	• •	0.76	0.05	0.008	Hypothetical proteins			157	40
BBN28 BB016 BB016 BB019Ip Lipoprotein Hypothetical protein0.65 1.490.06 0.0160.006 0.011Cell envelope Hypothetical proteins Conserved Conserved ConservedOther113 1575BB019 BB022Conserved hypothetical protein Conserved hypothetical protein1.330.106E-05Hypothetical proteins ConservedConserved Hypothetical proteins ConservedConserved+13975BB022Conserved hypothetical protein block1.340.080.003Hypothetical proteins - ConservedConserved+14258BB023blyAPore-forming hemolysin1.640.190.005Cellular processes ConservedToxin production and resistance+10981BB033Conserved hypothetical protein Plasmid partition protein, putative0.690.050.004Hypothetical proteins - ConservedConserved4916BB033ErpM protein Plasmid partition protein, putative0.690.070.008Cell envelope ConservedOther1638BB033Hypothetical protein Plasmid partition protein BB0331.650.170.003Hypothetical proteins - ConservedConserved4916BB033ErpM protein Plasmid partition protein BB0331.650.170.003Hypothetical proteins - ConservedConserved4916BB034Hypothetical protein Plasmid partition protein1.650.170.003Hypothetical proteins -	BBN26			0.81				Other	+	143	54
BB016Hypothetical protein1.490.160.011Hypothetical proteins15769BB019Conserved hypothetical protein1.530.106E-05Hypothetical proteins - ConservedConserved+13975BB022Conserved hypothetical protein1.340.080.003Hypothetical proteins - ConservedConserved+14258BB023blyAPore-forming hemolysin1.640.190.005Cellular processesToxin production and resistance+10981BB033Conserved hypothetical protein0.690.050.004Hypothetical proteins - ConservedConserved4916BB040erpMErpM protein0.670.070.008Cell envelopeOther1638BB027Conserved hypothetical protein1.650.170.003Hypothetical proteins - ConservedConserved+14083BBQ33Hypothetical protein1.440.110.002Hypothetical proteins - ConservedConserved4916BBQ40erpMErpM protein0.670.070.008Cell envelopeOther1638BBQ27Conserved hypothetical protein1.440.110.002Hypothetical proteins - ConservedConserved+14083BBQ35Hypothetical protein1.440.110.005Hypothetical proteins+16565BBQ88Hypothetical protein1.43	BBN28	ql	• • •				•	Other		113	5
BBO19Conserved hypothetical protein1.530.106E-05Hypothetical proteins - ConservedConserved+13975BBO22Conserved hypothetical protein1.340.080.003Hypothetical proteins - ConservedConserved+14258BBO23blyAPore-forming hemolysin1.640.190.005Cellular processesToxin production and resistance+10981BBO33Conserved hypothetical protein0.690.050.004Hypothetical proteins - ConservedConserved4916BBO40erpMErpM protein Plasmid partition protein, putative0.670.070.008Cell envelope ConservedOther1638BBQ27Conserved hypothetical protein1.650.170.003Hypothetical proteins - ConservedConserved+14083BBQ33Hypothetical protein1.440.110.002Hypothetical proteins - ConservedConserved+14083BBQ27Conserved hypothetical protein1.440.110.002Hypothetical proteins - ConservedConserved+14083BBQ33Hypothetical protein1.430.120.005Hypothetical proteins+14866BBQ40Hypothetical protein1.430.120.005Hypothetical proteins+7665BBR04Hypothetical protein1.430.130.006Hypothetical proteins+153 </td <td>BBO16</td> <td>•</td> <td>Hypothetical protein</td> <td>1.49</td> <td>0.16</td> <td>0.011</td> <td>Hypothetical proteins</td> <td></td> <td></td> <td>157</td> <td>69</td>	BBO16	•	Hypothetical protein	1.49	0.16	0.011	Hypothetical proteins			157	69
BBO23blyAPore-forming hemolysin1.640.190.005Cellular processesToxin production and resistance+10981BBO33Conserved hypothetical protein0.690.050.004Hypothetical proteins - ConservedConserved4916BBO40erpMErpM protein0.670.070.008Cell envelopeOther1638BBP32Plasmid partition protein, putative0.690.040.001Cellular processesCell division3214BBQ27Conserved hypothetical protein1.650.170.003Hypothetical proteins - ConservedConserved+14083BBQ53Hypothetical protein1.440.110.002Hypothetical proteins+7665BBQ88Hypothetical protein1.430.130.006Hypothetical proteins+7665BBR04Hypothetical protein0.700.080.021Hypothetical proteins+15324	BBO19			1.53			Hypothetical proteins -	Conserved	+	139	75
BBO33Conserved hypothetical protein0.690.050.004Hypothetical proteins - ConservedConserved4916BBO40 BBP32erpM Plasmid partition protein, putative0.670.070.008Cell envelope ConservedOther1638BBQ27Conserved hypothetical protein1.650.170.003Hypothetical proteins - ConservedConserved+14083BBQ53Hypothetical protein1.440.110.002Hypothetical proteins - ConservedConserved+14866BBQ88Hypothetical protein1.430.120.005Hypothetical proteins+7665BBR04Hypothetical protein1.430.130.006Hypothetical proteins+14864BBS12Hypothetical protein0.700.080.21Hypothetical proteins+15324	BBO22		Conserved hypothetical protein	1.34	0.08	0.003		Conserved	+	142	58
BBO40 BBP32erpM Plasmid partition protein, putative0.67 0.690.07 0.090.008 0.04Cell envelope Cell divisionOther Cell division163 328 14BBQ27Conserved hypothetical protein1.650.170.003 ConservedHypothetical proteins - ConservedConserved+14083BBQ53Hypothetical protein1.440.110.002 ConservedHypothetical proteins-14866BBQ88Hypothetical protein1.430.120.005 ConservedHypothetical proteins+7665BBR04Hypothetical protein1.430.130.006 ConservedHypothetical proteins+14864BBS12Hypothetical protein0.700.080.021Hypothetical proteins+15324	BBO23	blyA	Pore-forming hemolysin	1.64	0.19	0.005	Cellular processes		+	109	81
BBP32Plasmid partition protein, putative0.690.040.001Cellular processesCell division3214BBQ27Conserved hypothetical protein1.650.170.003Hypothetical proteins - ConservedConserved+14083BBQ53Hypothetical protein1.440.110.002Hypothetical proteins-14866BBQ88Hypothetical protein1.430.120.005Hypothetical proteins+7665BBR04Hypothetical protein1.430.130.006Hypothetical proteins14864BBS12Hypothetical protein0.700.080.021Hypothetical proteins+15324	BBO33		Conserved hypothetical protein	0.69	0.05	0.004		Conserved		49	16
BBQ27Conserved hypothetical protein1.650.170.003Hypothetical proteins - Conserved+14083BBQ53Hypothetical protein1.440.110.002Hypothetical proteins14866BBQ88Hypothetical protein1.430.120.005Hypothetical proteins+7665BBR04Hypothetical protein1.430.130.006Hypothetical proteins14864BBS12Hypothetical protein0.700.080.021Hypothetical proteins+15324	BBO40	erpM	ErpM protein	0.67	0.07	0.008	Cell envelope	Other		163	8
BBQ53Hypothetical protein1.440.110.002Hypothetical proteins14866BBQ88Hypothetical protein1.430.120.005Hypothetical proteins+7665BBR04Hypothetical protein1.430.130.006Hypothetical proteins14864BBS12Hypothetical protein0.700.080.021Hypothetical proteins+15324	BBP32		Plasmid partition protein, putative	0.69	0.04	0.001	Cellular processes	Cell division		32	14
BBQ88Hypothetical protein1.430.120.005Hypothetical proteins+7665BBR04Hypothetical protein1.430.130.006Hypothetical proteins14864BBS12Hypothetical protein0.700.080.021Hypothetical proteins+15324	BBQ27		Conserved hypothetical protein	1.65	0.17	0.003		Conserved	+	140	83
BBQ88Hypothetical protein1.430.120.005Hypothetical proteins+7665BBR04Hypothetical protein1.430.130.006Hypothetical proteins14864BBS12Hypothetical protein0.700.080.021Hypothetical proteins+15324	BBQ53		Hypothetical protein	1.44	0.11	0.002	Hypothetical proteins			148	66
BBR04Hypothetical protein1.430.130.006Hypothetical proteins14864BBS12Hypothetical protein0.700.080.021Hypothetical proteins+15324				1.43	0.12				+	76	65
BBS12 Hypothetical protein 0.70 0.08 0.021 Hypothetical proteins + 153 24	BBR04		, · · · ·	1.43						148	64
									+	153	
	BBS13								+	154	42

\*Standard Error.

<sup>†</sup>*t*-test *P*-value indicating significant difference from ratio of 1.0. <sup>‡</sup>Probe for this ORF has  $\geq$  80% identity to another probe on the array.

<sup>§</sup>Rank order, from lowest to highest, of mutant/WT ratio.

<sup>¶</sup>Taqman ratio of *rpoS* mutant/WT.