

Table S9. NanoString analysis of CsrR-regulated genes at stationary phase and the contribution of RopB to regulation

Gene Locus*	Gene Name	Gene Product	Log2-fold change $\Delta csrR$ vs. WT	Log2-fold change $\Delta ropB$ vs. WT
Spy_0017	-	putative secreted protein	-1.6	1.04
Spy_0034	-	transcription regulator	2.45	-0.08
Spy_0113	-	transposase	3.75	-1.1
Spy_0115	-	hypothetical protein	7.2	-0.88
Spy_0139	<i>nga</i>	NAD glycohydrolase	5.03	-0.67
Spy_0140	<i>ifs</i>	NADase inhibitor	4.64	-0.58
Spy_0141	<i>slo</i>	streptolysin O	4.8	-0.46
Spy_0142	-	hypothetical protein	2.22	-1.56
Spy_0143	-	hypothetical protein	9.19	-1.37
Spy_0144	-	hypothetical protein	8.87	-1.38
Spy_0157	<i>opuAA</i>	glycine betaine transport ATP-binding protein	-2.27	-0.04
Spy_0158	<i>opuABC</i>	glycine betaine-binding protein/glycine betaine transporter permease	-2.84	-0.49
Spy_0186	-	transcription regulator	2.5	-0.05
Spy_0275	-	serine/threonine transporter SstT	-1.06	0.06
Spy_0281	-	hypothetical protein	2.81	0.81
Spy_0282	<i>csrR</i>	response regulator	-7.21	0.81
Spy_0351	<i>spyA</i>	C3 family ADP-ribosyltransferase	4.73	-0.03
Spy_0352	-	hypothetical protein	6.11	-0.42
Spy_0355	-	hypothetical protein	1.54	-2.12
Spy_0356	<i>speJ</i>	exotoxin type J	1.22	-0.14
Spy_0402	-	hypothetical protein	1.29	-0.43
Spy_0500	-	N-acetylmuramoyl-L-alanine amidase	1.62	0.21
Spy_0501	-	hypothetical protein	1.14	-0.16
Spy_0561	<i>epf</i>	extracellular matrix binding protein	3.47	-1.12
Spy_0562	<i>sagA</i>	streptolysin S	2.64	-1.06
Spy_0563	<i>sagB</i>	Streptolysin S synthesis protein	2.93	-0.55
Spy_0571	-	hypothetical protein	1.93	0.05
Spy_0598	<i>mscL</i>	large-conductance mechanosensitive channel	-1.77	-0.64
Spy_0639	<i>pyrR</i>	putative pyrimidine regulatory protein	-1.35	0.87
Spy_0640	<i>pyrP</i>	putative uracil permease	-1.46	2.07
Spy_0652	-	hypothetical protein	-1.19	-0.12
Spy_0668	<i>mac</i>	IgG-degrading protease	3.83	-1.95
Spy_0673	<i>papS</i>	tRNA CCA-pyrophosphorylase	1.29	-0.03
Spy_0713	<i>bcaT</i>	branched-chain amino acid aminotransferase	-1.14	-0.54
Spy_0777	-	hypothetical protein	2.68	0.21

Spy_0784	<i>yesN</i>	putative two-component sensor histidine kinase	1.02	0.12
Spy_0809	<i>srtE</i>	conserved hypothetical protein - lantibiotic	1.1	-0.5
Spy_0913	-	putative integrase/recombinase	-1.03	0.4
Spy_0947	<i>ciaH</i>	sensor protein	1.25	-0.69
Spy_0996	<i>speA2</i>	enterotoxin	3.95	-0.08
Spy_1139	<i>nagB</i>	glucosamine-6-phosphate isomerase	-1.31	-0.93
Spy_1169	<i>spd3</i>	DNase	2.5	-0.92
Spy_1170	-	hypothetical protein	2.37	-0.87
Spy_1171	-	conserved hypothetical protein, phage associated	1.11	-1.18
Spy_1284	<i>ccdA</i>	putative cytochrome C-type biogenesis protein	1.08	-1.26
Spy_1290	-	hypothetical protein	3.41	-0.81
Spy_1291	-	ATP-dependent RNA helicase	3.57	-0.59
Spy_1329	<i>cysM</i>	putative O-acetylserine lyase	-1.17	-0.32
Spy_1407	-	esterase	2.16	0.61
Spy_1415	<i>sdaD2</i>	phage-encoded DNase	1.49	-0.84
Spy_1472	<i>hit</i>	bis(5'-nucleosyl)-tetrphosphatase (asymmetrical)	0.98	-0.05
Spy_1477	-	guanine-hypoxanthine permease	-1	-0.05
Spy_1479	<i>manL</i>	PTS system mannose-specific transporter subunit IIAB	-2.13	-0.35
Spy_1499	<i>grpE</i>	putative Hsp-70 cofactor	-2.13	-0.02
Spy_1504	-	hypothetical protein	-1.36	-0.71
Spy_1531	<i>isp2</i>	hypothetical protein	1.91	0.29
Spy_1540	<i>endoS</i>	endo-beta-N-acetylglucosaminidase F2	1.09	0.75
Spy_1556	-	hypothetical protein	3.75	0.54
Spy_1557	<i>mutY</i>	A/G-specific adenine glycosylase	1.28	0.05
Spy_1601	-	membrane protease	1.92	0.59
Spy_1635	<i>lacD.2</i>	putative tagatose 1,6-diphosphate aldolase	-2.11	0.07
Spy_1636	<i>lacC.2</i>	putative galactose-6-phosphate isomerase (C subunit)	-1.77	0.17
Spy_1637	<i>lacB.2</i>	putative galactose-6-phosphate isomerase (B subunit)	-1.38	0.42
Spy_1638	<i>lacA</i>	galactose-6-phosphate isomerase subunit LacA	-1.92	0.4
Spy_1684	<i>ska</i>	streptokinase	4.65	-0.32
Spy_1687	<i>sclA</i>	hypothetical protein	1.27	-2.39
Spy_1702	<i>smeZ</i>	mitogenic exotoxin Z	1.26	-0.39
Spy_1704	<i>dppA</i>	dipeptide-binding protein	-1.21	-0.1
Spy_1714	-	cell surface protein	2.98	-0.03

Spy_1715	<i>scpA</i>	C5A peptidase	3.84	-0.18
Spy_1718	<i>sic1.01</i>	inhibitor of complement protein	6.14	-0.04
Spy_1719	<i>emm1.0</i>	M protein	1.94	0.63
Spy_1731	-	hypothetical protein	1.6	0.96
Spy_1737	<i>ropB</i>	transcription regulator	-1.49	-7.46
Spy_1738	<i>spd/speMF</i>	phage-associated deoxyribonuclease	1.7	-0.95
Spy_1825	-	PadR family transcription regulator	-2.75	-0.88
Spy_1851	<i>hasA</i>	hyaluronan synthase	3.13	-2.06
Spy_1857	<i>guaB</i>	inosine monophosphate dehydrogenase	-1.76	-0.51
*Gene locus numbers refer to MGAS5005 genome.				