

1 **Additional File 2 Genes up-regulated following diclofenac induction of *S. aureus* strain**

2 **COL**

Locus ID <sup>a</sup>	Gene <sup>a</sup>	Function <sup>a</sup>	Fold Change <sup>b</sup>	
			Array	qRT-PCR
<b>Amino acid metabolism</b>				
SACOL1329	<i>glnA</i>	Glutamine-ammonia ligase	6.9	
<b>Cofactor metabolism</b>				
SACOL0538	<i>ipk</i>	4-diphosphocytidyl-2-C-methyl-D-erythritol kinase	2.5	
SACOL0564	<i>pdxS</i>	Pyridoxine biosynthesis protein	2.8	
SACOL1124	<i>ctaA</i>	Cytochrome oxidase assembly protein	2.6	
SACOL2105	<i>glyA</i>	Serine hydroxymethyltransferase	2.5	
SACOL2396	<i>sirB</i>	Uroporphyrin-III C-methyl transferase	17.5	
<b>Cell envelope</b>				
SACOL0052		Glycosyl transferase, group 1 family protein	2.1	
SACOL0054		Mur ligase family protein, authentic frameshift	2.7	
SACOL0136	<i>cap5A</i>	Capsular polysaccharide synthesis enzyme	20.1	17.9
SACOL0137	<i>cap5B</i>	Capsular polysaccharide synthesis enzyme Cap5B	8.3	
SACOL0138	<i>cap5C</i>	Capsular polysaccharide biosynthesis protein Cap5C	5.6	
SACOL0142	<i>cap5G</i>	UDP-N-acetylglucosamine 2-epimerase Cap5G	7.9	
SACOL0143	<i>cap5H</i>	Capsular polysaccharide synthesis enzyme	3.3	
SACOL0247	<i>lrgA</i>	Murein hydrolase regulator LrgA	2.1	
SACOL2019		SdrH protein, putative	2.5	
SACOL2578		Glycosyl transferase, group 2 family protein	7.2	
<b>Cellular processes</b>				
SACOL0244	<i>scdA</i>	Cell wall metabolism protein	4.9	
SACOL0958		General stress protein 13	2.7	
SACOL1759		Universal stress protein family	9.3	
SACOL1871	<i>epiG</i>	Epidermin immunity protein F	10.6	
SACOL1872	<i>epiE</i>	Epidermin immunity protein F	4.6	
SACOL2173	<i>asp23</i>	Alkaline shock protein 23	6.0	
SACOL2379		Similar to general stress protein	6.6	
SACOL2532		Acetyltransferase	4.3	
SACOL2731		Cold shock protein	2.1	
<b>Central intermediary metabolism</b>				
SACOL0660	<i>adhI</i>	Alcohol dehydrogenase	4.5	
SACOL2145	<i>glmS</i>	D-fructose-6-phosphate amidotransferase	4.3	
SACOL2296		Glycerate dehydrogenase	2.1	
SACOL2535		D-lactate dehydrogenase	2.5	
SACOL2576	<i>crtN</i>	Dehydrosqualene desaturase	5.5	
SACOL2577	<i>crtM</i>	Squalene desaturase	4.7	

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			Array	qRT-PCR
<b>DNA metabolism</b>				
SACOL1315	<i>hexA</i>	DNA mismatch repair protein	2.0	
SACOL1374	<i>lexA</i>	LexA repressor	2.6	
<b>Energy metabolism</b>				
SACOL2395	<i>narG</i>	Respiratory nitrate reductase, alpha subunit	12.1	
SACOL2398	<i>nirB</i>	Nitrite reductase large subunit	20.4	15.9
<b>Fatty acid metabolism</b>				
SACOL0599		UDP-glucose 4-epimerase related protein	3.3	
SACOL2482	<i>fabG2</i>	3-oxoacyl-(acyl carrier protein) reductase	8.4	
<b>Nucleic acid metabolism</b>				
SACOL0121	<i>deoD1</i>	Purine nucleoside phosphorylase	2.8	
SACOL0790.1		Ribonucleoside-diphosphate reductase 2	3.0	
SACOL0791	<i>nrdI</i>	Ribonucleotide reductase stimulatory protein	3.8	
SACOL0793	<i>nrdF</i>	Ribonucleotide-diphosphate reductase	2.0	
SACOL2128	<i>pdp</i>	Pyrimidine-nucleoside phosphorylase	2.2	
SACOL2634	<i>nrdG</i>	Anaerobic ribonucleoside-triphosphate reductase	13.6	
SACOL2635	<i>nrdD</i>	Anaerobic ribonucleoside triphosphate reductase	8.0	
<b>Protein fate</b>				
SACOL1933		ThiJ/PfpI family protein	3.6	
SACOL2007		Peptidase, M20/M25/M40 family	4.2	
SACOL2295		Staphyloxanthin biosynthesis protein	4.0	
SACOL2671		Translocase	2.3	
<b>Protein synthesis</b>				
SACOL0009	<i>serS</i>	Seryl-tRNA synthetase	2.8	
SACOL0815		Ribosomal subunit interface protein	10.0	
SACOL1798	<i>trmB</i>	tRNA (guanine-N(7)-)-methyltransferase	2.2	
SACOL1803		Pseudouridine synthase, family 1	2.6	
<b>Regulatory functions</b>				
SACOL0249		Transcriptional regulator, GntR family	2.1	
SACOL0257		Ribose operon repressor, putative	2.3	
SACOL0518	<i>treR</i>	Transcriptional regulator, GntR family	2.0	
SACOL0757		Transcription repressor of fructose operon	5.1	
SACOL1002	<i>spxA</i>	SpxA transcriptional regulator	2.0	
SACOL1328	<i>glnR</i>	Glutamine synthetase repressor	9.2	
SACOL1534	<i>srrB</i>	Staphylococcal respiratory response protein	3.1	
SACOL2147		Transcriptional antiterminator, BglG family	4.7	
SACOL2389		Transcriptional regulatory protein DegU	6.7	
<b>Signal transduction</b>				
SACOL1535	<i>srrA</i>	DNA-binding response regulator SrrA	4.9	6.2
SACOL2390		Sensory box histidine kinase, putative	5.4	

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			Array	qRT-PCR
<b>Transcription</b>				
SACOL0540		Translation initiation inhibitor homolog	3.9	
SACOL2055	<i>rsbW</i>	Anti-sigma B factor	2.3	1.8
<b>Transport proteins</b>				
SACOL0086		Putative drug transporter	3.0	
SACOL0088		Similar to transport protein	5.0	
SACOL0097	<i>sirC</i>	Iron compound ABC transporter, permease protein	4.9	
SACOL0155		Similar to cation-efflux system membrane protein	2.8	
SACOL0175		PTS II ABC component	4.4	
SACOL0217		Similar to nickel ABC transporter nickel-binding protein	2.3	
SACOL0255		Similar to ribose transporter RbsU	2.4	
SACOL0301		Formate/nitrite transporter protein	16.1	25
SACOL0302		Putative amino acid transport system	5.6	
SACOL0305		ABC transporter, permease protein	5.9	
SACOL0306		Similar to ABC transporter (ATP-binding protein)	7.3	
SACOL0516		Sugar-specific PTS transport system, IIBC component	6.9	
SACOL0620	<i>proP</i>	Proline/betaine transporter homolog	2.2	
SACOL0679		Monovalent cation/H <sup>+</sup> antiporter subunit A	9.4	
SACOL0680		Na <sup>+</sup> antiporter	3.3	
SACOL0682		MnhD homolog	4.3	
SACOL0684		Na <sup>+</sup> antiporter	6.9	
SACOL0685		Na <sup>+</sup> /H <sup>+</sup> antiporter, MnhF component, putative	4.2	
SACOL0759		PTS transport system, fructose-specific IIBC component	7.6	
SACOL0796		Ferrichrome ABC transporter permease	2.9	
SACOL0831		CofD-family protein	4.6	
SACOL1476		Amino acid permease	3.6	
SACOL1799		ChoK-family protein	2.4	
SACOL2146		PTS system, mannitol-specific IIBC components	2.7	
SACOL2148		PTS system, mannitol specific IIA component	2.5	
SACOL2176		Glycine betaine transporter opuD homolog	4.9	
SACOL2363		L-lactate permease	25.9	
SACOL2376		PTS system, sucrose-specific IIBC components, putative	6.9	
SACOL2382		Putative proton/sodium-glutamate symport protein	2.4	
SACOL2386	<i>narK</i>	Nitrite extrusion protein	31.0	
SACOL2401		Similar to NirC protein	2.0	
SACOL2462		ABC transporter, ATP-binding protein	5.6	
SACOL2514		Putative gluconate permease	4.3	
SACOL2721	<i>nixA</i>	High-affinity nickel-transport protein	2.1	
<b>Unclassified/unknown function</b>				
SACOL0089		67 kDa Myosin-crossreactive streptococcal antigen homolog	12.1	
SACOL0220		Flavoheмоprotein	3.1	

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SACOL0236		2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	2.7	
SACOL0541	<i>spoVG</i>	SpoVG regulatory protein	3.8	
SACOL0671		Hydrolase, alpha/beta hydrolase fold family	4.8	
SACOL0747		Similar to cobalamin synthesis related protein	2.4	
SACOL0872		OsmC/Ohr family protein	6.6	
SACOL0917		NifU domain protein	2.0	
SACOL1071		Chitinase-related protein	2.3	
SACOL1192		S-adenosyl-methyltransferase mraW	2.3	
SACOL1791		FtsK/SpoIIIE family protein	2.0	
SACOL1846		Putative lipoprotein	4.1	
SACOL1941	<i>yihY</i>	Ribonuclease BN, putative	5.2	
SACOL2012		Acetyltransferase, GNAT family	2.0	
SACOL2321		Short chain dehydrogenase	4.2	
SACOL2459		Similar to para-nitrobenzyl esterase chain A	4.7	
SACOL2579		Similar to phytoene dehydrogenase	4.8	

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16 **Additional File 2 Genes down-regulated following diclofenac induction of *S. aureus* strain**17 **COL**

Locus ID <sup>a</sup>	Gene <sup>a</sup>	Function <sup>a</sup>	Fold Change <sup>b</sup>	
			Array	qRT-PCR
<b>Amino acid metabolism</b>				
SACOL0515	<i>gltD</i>	Glutamate synthase, small subunit	-2.3	
SACOL1505	<i>aroB</i>	3-dehydroquininate synthase	-2.1	
SACOL1920		Similar to D-3-phosphoglycerate dehydrogenase	-2.3	
<b>Cofactor metabolism</b>				
SACOL0558	<i>folP</i>	Dihydropteroate synthase chain A synthetase	-2.4	
SACOL1922	<i>gsaB</i>	Glutamate-1-semialdehyde aminotransferase	-2.4	
SACOL2266		Molybdopterin biosynthesis MoeA protein, putative	-2.6	
SACOL2448		2-dehydropantoate 2-reductase	-2.8	
SACOL2560		Hydroxymethylglutaryl-CoA reductase, degradative	-2.6	
SACOL2615	<i>panB</i>	3-methyl-2-oxobutanoate hydroxymethyltransferase	-3.1	
SACOL2616		2-dehydropantoate 2-reductase	-2.1	
<b>Cell envelope</b>				
SACOL0050	<i>pls</i>	Methicillin-resistant surface protein	-2.1	
SACOL0119	<i>sasD</i>	Putative surface anchored protein	-2.0	
SACOL0548		Putative polysaccharide biosynthesis protein	-2.4	
SACOL0699	<i>pbp4</i>	Penicillin-binding protein 4	-2.3	
SACOL0935	<i>dltA</i>	D-alanine--D-alanyl carrier protein ligase	-2.0	
SACOL0936	<i>dltB</i>	DltB protein	-2.0	
SACOL1134	<i>coaD</i>	Phosphopanthetheine adenylyltransferase	-2.0	
SACOL1490	<i>pbp2</i>	PBP2	-3.0	
SACOL1804		Putative polysaccharide biosynthesis protein	-2.5	
SACOL1892		Putative transporter protein	-2.0	
SACOL2073	<i>murF</i>	UDP-N-acetylmuramoylalanyl-D-glutamyl ligase	-2.0	
SACOL2275		Similar to biotin biosynthesis protein	-2.4	
SACOL2446		Similar to dTDP-glucose 4,6-dehydratase	-5.6	
SACOL2676	<i>sasA</i>	LPXTG cell wall surface anchor family protein	-2.0	
<b>Cellular processes</b>				
SACOL0555		Cell division protein FtsH, putative	-2.0	
SACOL1368	<i>katA</i>	Catalase	-2.9	
SACOL1396	<i>fmtC</i>	FmtC protein	-5.5	
SACOL1456		Methionine sulfoxide reductase B	-2.2	
SACOL1824	<i>arsC</i>	Arsenate reductase	-2.3	
SACOL1964	<i>camS</i>	Staphylococcus aureus sex pheromone	-2.4	

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<b>Central intermediary metabolism</b>				
SACOL0173		Putative thiamine pyrophosphate enzyme	-2.1	
SACOL1365		HAD superfamily hydrolase	-3.2	
SACOL2021		Carbon-nitrogen family hydrolase	-2.0	
SACOL2280	<i>ureA</i>	Urease, gamma subunit	-2.1	
SACOL2281	<i>ureB</i>	Urease beta subunit	-4.9	
SACOL2282	<i>ureC</i>	Urease, alpha subunit	-11.0	
SACOL2283	<i>ureE</i>	Urease accessory protein UreE	-9.1	
SACOL2284	<i>ureF</i>	Urease accessory protein UreF	-6.0	
SACOL2286	<i>ureD</i>	Urease accessory protein UreD	-3.4	
SACOL2367		Probable oxidoreductase	-3.5	
SACOL2488		Similar to oxidoreductase	-5.3	
			-4.1	
<b>DNA metabolism</b>				
SACOL0534	<i>tatD</i>	Deoxyribonuclease, TatD family	-2.3	
SACOL0572	<i>radA</i>	DNA repair protein RadA	-2.6	
SACOL1150	<i>rnhC</i>	Ribonuclease HIII	-3.5	
SACOL1154		Recombination and DNA strand exchange inhibitor	-2.0	
SACOL1162		Nucleoside triphosphatase	-2.9	
SACOL1267	<i>topA</i>	DNA topoisomerase I	-3.2	
SACOL1390	<i>parC</i>	DNA topoisomerase IV subunit A	-2.3	
SACOL1489	<i>recU</i>	Holiday junction specific endonuclease	-2.8	
SACOL1540	<i>xerD</i>	Tyrosine recombinase	-3.7	
SACOL1614	<i>nfo</i>	Endonuclease IV	-2.4	
SACOL2141		Site-specific recombinase family protein	-2.1	
SACOL2594		Short chain oxidoreductase	-39.4	
<b>Fatty acid metabolism</b>				
SACOL0426		Acetyl-CoA C-acetyltransferase homolog	-2.5	
SACOL0987	<i>fabH</i>	3-oxoacyl-(acyl carrier protein) synthase	-2.7	
SACOL1016	<i>fabI</i>	Enoyl-(acyl carrier protein) reductase	-3.1	
SACOL1244	<i>fabD</i>	Malonyl CoA-acyl carrier protein transacylase	-2.3	
SACOL1245	<i>fabG1</i>	3-oxoacyl-(acyl-carrier-protein) reductase	-2.2	
SACOL1322		Similar to lysophospholipase	-2.9	
SACOL1496		Similar to biotin ligase	-2.7	
SACOL1571	<i>accC</i>	Acetyl-CoA carboxylase	-3.0	
SACOL1770		Glycerophosphoryl diester phosphodiesterase	-2.2	
<b>Mobile elements</b>				
SACOL1854		Transposase	-2.7	

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			Array	qRT-PCR
<b>Protein fate</b>				
SACOL0417		MttB family protein	-2.5	
SACOL0556		Heat-shock protein HSP33 homolog	-2.7	
SACOL1034		Lipoate-protein ligase A family protein	-2.5	
SACOL1281		Membrane-associated zinc metalloprotease	-2.1	
SACOL1555		Similar to tripeptidase	-2.4	
SACOL1588		Putative peptidase	-2.0	
SACOL1636	<i>dnaJ</i>	DnaJ protein	-3.5	
SACOL1637	<i>dnaK</i>	DnaK protein	-3.6	
SACOL1638	<i>grpE</i>	GrpE protein	-3.7	
SACOL1667		Protease	-2.4	
SACOL1693	<i>yajC</i>	Preprotein translocase, YajC subunit	-2.0	
SACOL1722		Trigger factor	-2.0	
SACOL1777		Putative protease	-2.1	
SACOL2016	<i>groEL</i>	GroEL protein	-2.3	
SACOL2017	<i>groES</i>	GroEL protein	-2.3	
SACOL2038		Similar to O-sialoglycoprotein endopeptidase	-2.3	
SACOL2714	<i>pcp</i>	Pyrrolidone-carboxylate peptidase	-2.1	
<b>Protein synthesis</b>				
SACOL0439	<i>rpsR</i>	Ribosomal protein S18	-2.1	
SACOL0562	<i>lysS</i>	Lysyl-tRNA synthetase	-2.1	
SACOL0574	<i>gltX</i>	Glutamyl-tRNA synthetase	-2.1	
SACOL0773		Glutamine amidotransferase class-I protein	-2.0	
SACOL0818	<i>prfB</i>	Peptide chain release factor 2	-2.0	
SACOL1206	<i>ileS</i>	Isoleucyl-tRNA synthetase	-2.6	
SACOL1256	<i>trmD</i>	tRNA-methyltransferase	-2.3	
SACOL1282	<i>proS</i>	Prolyl-tRNA synthetase	-2.5	
SACOL1633		Similar to Fe-S oxidoreductase	-2.2	
SACOL1635		Probable methyltransferase	-2.0	
SACOL1694	<i>tgt</i>	Queuine tRNA-ribosyltransferase	-3.3	
SACOL1700	<i>rpmA</i>	50S ribosomal protein L27	-2.0	
SACOL1725	<i>rplT</i>	50S ribosomal protein L20	-2.5	
SACOL1769	<i>rpsD</i>	30S ribosomal protein S4	-2.0	
SACOL1960		Aspartyl/glutamyl-tRNA amidotransferase subunit B	-2.3	
SACOL2221	<i>rpmD</i>	Ribosomal protein L30p/L7e	-2.0	
SACOL2226	<i>rpsN2</i>	Ribosomal protein S14	-2.4	
SACOL2228	<i>rplX</i>	50S ribosomal protein L24	-3.2	
SACOL2229	<i>rplN</i>	Ribosomal protein L14	-2.2	
SACOL2233	<i>rpsC</i>	30S ribosomal protein S3	-2.9	

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SACOL2234	<i>rplV</i>	Ribosomal protein L22	-3.4	
SACOL2236	<i>rplB</i>	50S ribosomal protein L2	-2.2	
SACOL2237		50S ribosomal protein L23	-2.0	
SACOL2238	<i>rplD</i>	50S ribosomal protein L4	-2.7	
SACOL2239	<i>rplC</i>	Ribosomal protein L3	-2.2	
SACOL2240		30S ribosomal protein S10	-2.9	
SACOL2554.1		LrgA family protein	-2.4	
<b>Purine/pyrimidine metabolism</b>				
SACOL0018	<i>purA</i>	Adenylosuccinate synthase	-3.0	
SACOL1212		Aspartate carbamoyltransferase catalytic subunit	-7.8	
SACOL1213	<i>pyrC</i>	Dihydroorotase	-12.8	
SACOL1214	<i>pyrAA</i>	Carbamoyl-phosphate synthase small subunit	-12.7	
SACOL1215	<i>pyrAB</i>	Carbamoyl-phosphate synthase large subunit	-11.0	
SACOL1216	<i>pyrF</i>	Orotidine 5'-phosphate decarboxylase	-13.8	
SACOL1217	<i>pyrE</i>	Orotate phosphoribosyltransferase	-14.2	
SACOL1277	<i>smbA</i>	Uridylate kinase	-2.1	
SACOL2119	<i>pyrG</i>	CTP synthetase	-2.0	
SACOL2606	<i>pyrD</i>	Dihydroorotate dehydrogenase	-2.9	
<b>Regulatory functions</b>				
SACOL0307	<i>pfoR</i>	Perfringolysin O regulatory protein	-2.6	
SACOL0404	<i>mepR</i>	MarR family transcriptional regulator	-2.8	-3.2
SACOL0567	<i>ctsR</i>	Putative DNA-binding protein	-2.7	
SACOL1107		Transcriptional regulator, Cro/CI family	-2.6	
SACOL1210	<i>pyrR</i>	Pyrimidine regulatory protein PyrR	-3.4	
SACOL1639	<i>hrcA</i>	Heat-inducible transcriptional repressor	-3.5	
SACOL1822	<i>arsR</i>	Arsenical resistance operon repressor	-3.0	
SACOL2256		MarR family transcriptional regulator	-4.7	
SACOL2593		TetR-family transcriptional regulator	-24.2	
SACOL2645		Putative sensor histidine kinase	-2.0	
<b>Signal transduction</b>				
SACOL0765	<i>saeS</i>	Sensor histidine kinase SaeS	-2.8	
<b>Transcription</b>				
SACOL0582	<i>nusG</i>	Transcription antitermination protein NusG	-2.2	
SACOL0588	<i>rpoB</i>	DNA-directed RNA polymerase beta subunit	-2.0	
SACOL1255	<i>rimM</i>	16S rRNA processing protein RimM	-2.1	
SACOL1471		Similar to cell wall enzyme EbsB	-2.8	
SACOL1665	<i>greA</i>	Transcription elongation factor GreA	-2.9	



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			Array	qRT-PCR
<b>Transport proteins</b>				
SACOL0405	<i>mepA</i>	MATE-family protein	-9.2	-10.5
SACOL0406	<i>mepB</i>	Hypothetical protein	-2.8	
SACOL0954	<i>mnhB</i>	Na <sup>+</sup> /H <sup>+</sup> antiporter, MnhB component	-2.0	
SACOL0955	<i>mnhA</i>	Na <sup>+</sup> /H <sup>+</sup> antiporter subunit	-2.4	
SACOL1013		Mg <sup>2+</sup> transporter	-2.1	
SACOL1108	<i>potA</i>	Spermidine/putrescine ABC transporter	-3.0	
SACOL1211	<i>pyrP</i>	Uracil permease	-9.7	
SACOL1392		Sodium:alanine symporter family protein	-2.0	
SACOL1414		Oligopeptide transporter putative ATPase domain	-2.0	
SACOL1427		ABC transporter, ATP-binding protein	-2.3	
SACOL1443	<i>brnQ3</i>	Branched-chain amino acid transport system protein	-2.4	-5.5
SACOL1728		Amino acid permease	-2.6	
SACOL1728		Lysine-specific permease	-2.4	
SACOL1921		Similar to bacterioferritin comigratory protein	-2.2	
SACOL1924		ABC transporter homolog	-3.4	
SACOL1952		Ferritins family protein	-2.0	
SACOL2156		ATP-binding protein, Mrp/Nbp35 family	-2.2	
SACOL2159		Putative drug transporter	-2.0	
SACOL2246		Glucose uptake protein homolog	-3.5	
SACOL2314		Sodium/bile acid symporter family protein	-2.2	
SACOL2319		Na <sup>+</sup> antiporter	-2.2	
SACOL2347		EmrB/QacA family drug resistance transporter	-12.8	-18
SACOL2348		EmrA family drug resistance transporter	-40.7	
SACOL2458		Amino acid permease	-2.6	
SACOL2572	<i>copA</i>	Copper-transporting ATPase	-2.6	
<b>Unclassified/unknown function</b>				
SACOL0046		Metallo-beta-lactamase family protein	-3.7	
SACOL0435		GTP-binding protein	-2.1	
SACOL0602		Hydrolase, haloacid dehalogenase-like family	-2.7	
SACOL0658		Similar to dGTP triphosphohydrolase	-2.5	
SACOL0778		Sulfatase family protein	-2.0	
SACOL0869		Phosphoglycerate mutase family protein	-2.2	
SACOL0959		NADH-dependent flavin oxidoreductase, Oye family	-8.2	
SACOL1268	<i>gid</i>	Glucose-inhibited division protein A	-4.6	
SACOL1305		HD/HDIG/KH domain protein	-2.0	
SACOL1351		Cardiolipin synthetase homolog	-3.4	
SACOL1641	<i>lepA</i>	GTP-binding protein LepA	-2.4	
SACOL1699	<i>obg</i>	Spo0B-associated GTP-binding protein	-2.3	

Locus ID <sup>a</sup>	Gene <sup>a</sup>	Function <sup>a</sup>	Fold Change <sup>b</sup>	
			Array	qRT-PCR
SACOL1720		GTP-binding protein	-2.3	
SACOL1835		Plant metabolite dehydrogenase homolog	-2.0	
SACOL2400		Acetyltransferase, GNAT family	-3.3	
SACOL2529		Phospholipase/carboxylesterase family protein	-2.3	
SACOL2591		ActVA 4 protein	-26.9	
SACOL2597		Conserved hypothetical protein	-3.1	

18 <sup>a</sup> Locus ID, gene, and functional annotation for *S. aureus* strain COL (GenBank CP000046)

19 (NCBI).

20 <sup>b</sup> Fold change determined as the expression ratio of diclofenac-induced vs. control (untreated )

21 cultures for microarrays and quantitative real-time PCR (qRT-PCR).