

Table S2. Genes lacking Tn insertions.

Genes/tRNA/rRNA not hit	Protein Product/RNA	Chaudhuri et al*
SAUSA300_0001	chromosomal replication initiation protein; <i>dnaA</i>	SAOUHSC_00001; <i>dnaA</i>
SAUSA300_0002	DNA polymerase III subunit beta; <i>dnaN</i>	SAOUHSC_00002; <i>dnaN</i>
SAUSA300_0003	Conserved hypothetical protein	SAOUHSC_00003; conserved hypothetical protein
SAUSA300_0005	DNA gyrase subunit B; <i>gyrB</i>	SAOUHSC_00005; <i>gyrB</i>
SAUSA300_0009	seryl-tRNA synthetase	SAOUHSC_00009; seryl-tRNA synthetase
SAUSA300_0015	50S ribosomal protein L9	SAOUHSC_00017; ribosomal protein L9
SAUSA300_0016	replicative DNA helicase; <i>dnaC</i>	SAOUHSC_00018; <i>dnaC</i>
SAUSA300_0018	tRNA-Glu	
SAUSA300_0019	tRNA-Asp	
SAUSA300_0020	DNA-binding response regulator; <i>vicR</i>	SAOUHSC_00020; <i>vicR</i>
SAUSA300_0021	sensory box histidine kinase; <i>vicK</i>	SAOUHSC_00021; <i>vicK</i>
SAUSA300_0026	rRNA large subunit methyltransferase; <i>orfX</i>	
SAUSA300_0036	hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_0051	pseudogene/integrase	Not Present in NCTC8325 Genome
SAUSA300_0054	Conserved hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_0058	Conserved hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_0069	IS431 transposase	Not Present in NCTC8325 Genome
SAUSA300_0080	hypothetical protein	
SAUSA300_0087	pseudogene/conserved hypothetical protein	
SAUSA300_0088	hypothetical protein	
SAUSA300_0089	hypothetical protein/Probable tRNA-dihydrouridine synthase	
SAUSA300_0092	hypothetical protein	
SAUSA300_0111	Conserved hypothetical protein	
SAUSA300_0149	pseudogene/replication initiator protein	
SAUSA300_0150	pseudogene/degenerate transposase	
SAUSA300_0155	cap5D; pseudogene/authentic frameshift	
SAUSA300_0172	Conserved hypothetical protein	
SAUSA300_0248	putative teichoic acid biosynthesis protein F	SAOUHSC_00223; <i>tagF</i>

SAUSA300_0249	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	SAOUHSC_00225
SAUSA300_0250	alcohol dehydrogenase, zinc- containing	SAOUHSC_00226
SAUSA300_0251	putative teichoic acid biosynthesis protein	SAOUHSC_00227
SAUSA300_0273	Conserved hypothetical protein	
SAUSA300_0278	Conserved hypothetical protein	
SAUSA300_0280	Conserved hypothetical protein	
SAUSA300_0292	Conserved hypothetical protein	
SAUSA300_0295	Conserved hypothetical protein	
SAUSA300_0303	Putative lipoprotein	
SAUSA300_0325	glycine cleavage H-protein	
SAUSA300_0331	Conserved hypothetical protein	
SAUSA300_0343	acetyltransferase	
SAUSA300_0350	Cro/CI family transcriptional regulator-like protein	
SAUSA300_0360	Cys/Met metabolism PLP- dependent enzyme	
SAUSA300_0363	Conserved hypothetical protein	SAOUHSC_00345
SAUSA300_0366	30S ribosomal protein S6	SAOUHSC_00348
SAUSA300_0367	single-strand binding protein	SAOUHSC_00349
SAUSA300_0368	30S ribosomal protein S18	SAOUHSC_00350
SAUSA300_0374	Putative membrane protein	
SAUSA300_0386	xanthine phosphoribosyltransferase	
SAUSA300_0389	GMP synthase	SAOUHSC_00375; <i>guaA</i>
SAUSA300_0392	Conserved hypothetical protein	
SAUSA300_0412	tandem lipoprotein/pseudogene	Not Present in NCTC8325 Genome
SAUSA300_0425	NADH dehydrogenase I F subunit	
SAUSA300_0427	Conserved hypothetical protein	
SAUSA300_0435	ABC transporter ATP-binding protein	
SAUSA300_0440	MutT/nudix family protein	
SAUSA300_0441	acetyltransferase;GNAT family	
SAUSA300_0447	tRNA-Ser	
SAUSA300_0452	DNA polymerase III subunit gamma and tau	SAOUHSC_00442; <i>dnaX</i>
SAUSA300_0453	Conserved hypothetical protein	SAOUHSC_0444
SAUSA300_0454	<i>recR</i> ; recombination protein RecR	
SAUSA300_0455	<i>rrsA</i> ; 16S ribosomal RNA	
SAUSA300_0459	thymidylate kinase	SAOUHSC_00451; <i>tmk</i>
SAUSA300_0460	Conserved hypothetical protein	
SAUSA300_0461	DNA polymerase III subunit delta	SAOUHSC_00454; <i>holB</i>
SAUSA300_0463	DNA replication initiation control protein YabA	

SAUSA300_0467	methionyl-tRNA synthetase	SAOUHSC_00461; <i>metS</i>
SAUSA300_0475	regulatory protein SpoVG	
SAUSA300_0477	UDP-N-acetylglucosamine pyrophosphorylaseacetyltransferase	SAOUHSC_00471; <i>gcaD</i>
SAUSA300_0478	ribose-phosphate pyrophosphokinase	SAOUHSC_00472; <i>prs</i>
SAUSA300_0479	ribosomal protein L25, Ctc-form	SAOUHSC_00474; <i>rplY</i>
SAUSA300_0480	peptidyl-tRNA hydrolase	SAOUHSC_00475; <i>pth</i>
SAUSA300_0484	Conserved hypothetical protein	
SAUSA300_0485	cell-division initiation protein	SAOUHSC_00482
SAUSA300_0486	polyribonucleotide nucleotidyltransferase	
SAUSA300_0487	Conserved hypothetical protein	SAOUHSC_00484
SAUSA300_0488	hypoxanthine phosphoribosyltransferase	SAOUHSC_00485
SAUSA300_0491	cysteine synthase A	
SAUSA300_0492	dihydropteroate synthase	SAOUHSC_00489; <i>folP</i>
SAUSA300_0493	dihydroneopterin aldolase	SAOUHSC_00490; <i>folB</i>
SAUSA300_0494	2-amino-4-hydroxy-6- hydroxymethyl-dihydropteridine pyrophosphokinase	SAOUHSC_00491; <i>folK</i>
SAUSA300_0495	hypothetical protein	
SAUSA300_0496	lysyl-tRNA synthetase	SAOUHSC_00493; <i>lysS</i>
SAUSA300_0497	<i>rrfG</i> ; 5S ribosomal RNA	
SAUSA300_0498	tRNA-Ala	
SAUSA300_0499	<i>rrsB</i> ; 16S ribosomal RNA	
SAUSA300_0500	tRNA-Ile	
SAUSA300_0501	<i>rrlB</i> ; 23S ribosomal RNA	
SAUSA300_0502	<i>rrfB</i> ; 5S ribosomal RNA	
SAUSA300_0507	transcriptional regulator CtsR	
SAUSA300_0508	UvrB/uvrC motif domain protein	
SAUSA300_0514	serine acetyltransferase	SAOUHSC_00510; <i>cysE</i>
SAUSA300_0515	cysteinyl-tRNA synthetase	SAOUHSC_00511; <i>cysS</i>
SAUSA300_0520	preprotein translocase subunit SecE	SAOUHSC_00516; <i>secE</i>
SAUSA300_0522	50S ribosomal protein L11	SAOUHSC_00518; <i>rplK</i>
SAUSA300_0523	50S ribosomal protein L1	SAOUHSC_00519; <i>rplA</i>
SAUSA300_0524	50S ribosomal protein L10	SAOUHSC_00520; <i>rplU</i>
SAUSA300_0525	50S ribosomal protein L7/L12	SAOUHSC_00521; <i>rplL</i>
SAUSA300_0527	DNA-directed RNA polymerase subunit beta	SAOUHSC_00524; <i>rpoB</i>
SAUSA300_0528	DNA-directed RNA polymerase subunit beta'	SAOUHSC_00525; <i>rpoC</i>
SAUSA300_0529	putative ribosomal protein L7Ae-like	
SAUSA300_0530	30S ribosomal protein S12	SAOUHSC_00527; <i>rpsL</i>
SAUSA300_0531	30S ribosomal protein S7	SAOUHSC_00528; <i>rpsG</i>
SAUSA300_0532	elongation factor G	SAOUHSC_00529; <i>fus</i>

SAUSA300_0533	elongation factor Tu	SAOUHSC_00530; <i>tufA</i>
SAUSA300_0541	deoxynucleoside kinase family protein	
SAUSA300_0555	putative hexulose-6-phosphate synthase	
SAUSA300_0569	putative heme peroxidase	
SAUSA300_0570	phosphotransacetylase	SAOUHSC_00574; <i>pta</i>
SAUSA300_0571	lipoate-protein ligase A family protein	SAOUHSC_00575
SAUSA300_0572	mevalonate kinase	SAOUHSC_00577; <i>mvaK1</i>
SAUSA300_0573	mevalonate diphosphate decarboxylase	SAOUHSC_0578; <i>mvaD</i>
SAUSA300_0574	phosphomevalonate kinase	SAOUHSC_00579; <i>mvaK2</i>
SAUSA300_0589	aldo/keto reductase family protein	
SAUSA300_0596	arginyl-tRNA synthetase	SAOUHSC_00611; <i>argS</i>
SAUSA300_0607	Conserved hypothetical protein	
SAUSA300_0608	Conserved hypothetical protein	
SAUSA300_0609	phage integrase family protein	
SAUSA300_0610	putative monovalent cation/H ⁺ antiporter subunit A	
SAUSA300_0611	putative monovalent cation/H ⁺ antiporter subunit B	
SAUSA300_0623	teichoic acid biosynthesis protein	SAOUHSC_00640; <i>tagA</i>
SAUSA300_0624	teichoic acids export protein ATP-binding subunit	SAOUHSC_00641; <i>tagH</i>
SAUSA300_0625	teichoic acid ABC transporter protein	SAOUHSC_00642; <i>tagG</i>
SAUSA300_0628	glycerol-3-phosphate cytidyltransferase	SAOUHSC_00645; <i>tagD</i>
SAUSA300_0637	dihydroxyacetone kinase subunit DhaL	
SAUSA300_0639	Conserved hypothetical protein	
SAUSA300_0663	Putative lipoprotein	
SAUSA300_0681	Conserved hypothetical protein	
SAUSA300_0682	ybaK/ebsC protein	
SAUSA300_0695	radical activating enzyme family protein	
SAUSA300_0697	ExsB protein	
SAUSA300_0710	hypothetical protein	
SAUSA300_0715	ribonucleotide reductase stimulatory protein	SAOUHSC_00741; <i>nrdI</i>
SAUSA300_0716	ribonucleotide-diphosphate reductase subunit alpha	SAOUHSC_00742; <i>nrdE</i>
SAUSA300_0717	ribonucleotide-diphosphate reductase subunit beta	SAOUHSC_00743; <i>nrdF</i>
SAUSA300_0722	UDP-N-acetylenolpyruvoylglucosamine reductase	SAOUHSC_00752
SAUSA300_0737	preprotein translocase subunit SecA	SAOUHSC_00769; <i>secA</i>

SAUSA300_0738	peptide chain release factor 2, frameshift	SAOUHSC_00771; <i>prfB</i>
SAUSA300_0743	HPr kinase/phosphorylase	SAOUHSC_00781; <i>hprK</i>
SAUSA300_0747	thioredoxin-disulfide reductase	SAOUHSC_00785; <i>trxB</i>
SAUSA300_0749	Conserved hypothetical protein	SAOUHSC_00788
SAUSA300_0751	tRNA-Arg	
SAUSA300_0755	glycolytic operon regulator	
SAUSA300_0757	phosphoglycerate kinase	SAOUHSC_00796; <i>pgk</i>
SAUSA300_0758	triosephosphate isomerase	SAOUHSC_00797; <i>tpi</i>
SAUSA300_0760	phosphopyruvate hydratase	SAOUHSC_00799; <i>eno</i>
SAUSA300_0761	Conserved hypothetical protein	
SAUSA300_0762	preprotein translocase subunit SecG	
SAUSA300_0765	SsrA-binding protein	SAOUHSC_00804; <i>ssrP</i>
SAUSA300_0766	ssrA; 10Sa RNA (tmRNA)	
SAUSA300_0768	Conserved hypothetical protein	
SAUSA300_0777	cold shock protein	
SAUSA300_0781	Conserved hypothetical protein	
SAUSA300_0790	Putative arsenate reductase	
SAUSA300_0792	Conserved hypothetical protein	
SAUSA300_0802	hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_0803	Cro/C1 family transcriptional regulator	Not Present in NCTC8325 Genome
SAUSA300_0805	pathogenicity island protein	Not Present in NCTC8325 Genome
SAUSA300_0806	hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_0818	FeS assembly ATPase SufC	SAOUHSC_00847
SAUSA300_0819	FeS assembly protein SufD	SAOUHSC_00848
SAUSA300_0820	SufS subfamily cysteine desulfurase	SAOUHSC_00849
SAUSA300_0821	NifU family SUF system FeS assembly protein	SAOUHSC_00850
SAUSA300_0822	FeS assembly protein SufB	SAOUHSC_00851
SAUSA300_0823	Conserved hypothetical protein	
SAUSA300_0830	Conserved hypothetical protein	
SAUSA300_0835	D-alanine-activating enzyme/D-alanine-D-alanyl, <i>dltA</i> protein	SAOUHSC_00869; <i>dltA</i>
SAUSA300_0836	<i>dltB</i> protein	SAOUHSC_00870; <i>dltB</i>
SAUSA300_0837	D-alanine-activating enzyme/D-alanine-D-alanyl, <i>dltC</i> protein	SAOUHSC_00871; <i>dltC</i>
SAUSA300_0838	D-alanine-activating enzyme/D-alanine-D-alanyl, <i>dltD</i> protein	SAOUHSC_00872; <i>dltD</i>
SAUSA300_0843	Conserved hypothetical protein	
SAUSA300_0849	putative monovalent cation/H ⁺ antiporter subunit G	Essential in <i>B. subtilis</i>
SAUSA300_0850	putative monovalent cation/H ⁺ antiporter subunit F	Essential in <i>B. subtilis</i>

SAUSA300_0851	putative monovalent cation/H+ antiporter subunit E	Essential in <i>B. subtilis</i>
SAUSA300_0852	putative monovalent cation/H+ antiporter subunit D	Essential in <i>B. subtilis</i>
SAUSA300_0853	putative monovalent cation/H+ antiporter subunit C	Essential in <i>B. subtilis</i>
SAUSA300_0854	putative monovalent cation/H+ antiporter subunit B	Essential in <i>B. subtilis</i>
SAUSA300_0855	monovalent cation/H+ antiporter subunit A	Essential in <i>B. subtilis</i>
SAUSA300_0858	Conserved hypothetical protein	SAOUHSC_00892
SAUSA300_0865	glucose-6-phosphate isomerase	SAOUHSC_00900; <i>pgi</i>
SAUSA300_0868	signal peptidase IB	SAOUHSC_00903; <i>spsB</i>
SAUSA300_0875	Conserved hypothetical protein	
SAUSA300_0878	LysR family transcriptional regulator	
SAUSA300_0884	Conserved hypothetical protein	
SAUSA300_0885	3-oxoacyl-(acyl carrier protein) synthase III	SAOUHSC_00920; <i>fabH</i>
SAUSA300_0886	3-oxoacyl-(acyl-carrier-protein) synthase II	SAOUHSC_00921; <i>fab</i>
SAUSA300_0897	tryptophanyl-tRNA synthetase	SAOUHSC_00933; <i>trpS</i>
SAUSA300_0898	transcriptional regulator Spx	SAOUHSC_00934
SAUSA300_0906	Conserved hypothetical protein	
SAUSA300_0907	GTP pyrophosphokinase	
SAUSA300_0908	NAD(+)/NADH kinase	SAOUHSC_00943
SAUSA300_0912	trans-2-enoyl-ACP reductase	SAOUHSC_00947; <i>fabI</i>
SAUSA300_0919	UDP-N-acetylmuramoylalanyl-D-glutamate--L-lysine ligase	SAOUHSC_00954; <i>murE</i>
SAUSA300_0920	Conserved hypothetical protein	
SAUSA300_0922	TerC family membrane protein	SAOUHSC_00957
SAUSA300_0926	tRNA-Ser	
SAUSA300_0927	tRNA-Asn	
SAUSA300_0928	competence transcription factor	
SAUSA300_0929	Conserved hypothetical protein	
SAUSA300_0931	Conserved hypothetical protein	
SAUSA300_0933	Conserved hypothetical protein	
SAUSA300_0944	1,4-dihydroxy-2-naphthoate octaprenyltransferase	SAOUHSC_00980
SAUSA300_0948	naphthoate synthase/enoyl-CoA hydratase	Essential in <i>B. subtilis</i>
SAUSA300_0956	Conserved hypothetical protein	
SAUSA300_0960	quinol oxidase, subunit IV	
SAUSA300_0964	Conserved hypothetical protein	
SAUSA300_0966	phosphoribosylaminoimidazole carboxylase, catalytic subunit	
SAUSA300_0983	phosphocarrier protein HPr	SAOUHSC_01028; <i>ptsH</i>
SAUSA300_0985	Conserved hypothetical protein	

SAUSA300_0989	Conserved hypothetical protein	SAOUHSC_01035
SAUSA300_0990	Conserved hypothetical protein	SAOUHSC_01036
SAUSA300_0991	peptide deformylase	SAOUHSC_01038; <i>pdf1</i>
SAUSA300_1004	Conserved hypothetical protein	
SAUSA300_1010	Conserved hypothetical protein	
SAUSA300_1018	Conserved hypothetical protein	
SAUSA300_1022	Conserved hypothetical protein	
SAUSA300_1024	phosphopantetheine adenyltransferase	SAOUHSC_01075
SAUSA300_1025	Conserved hypothetical protein	
SAUSA300_1026	Conserved hypothetical protein	SAOUHSC_01077
SAUSA300_1027	50S ribosomal protein L32	SAOUHSC_01078; <i>rpmF</i>
SAUSA300_1035	heme-degrading monooxygenase IsdG	
SAUSA300_1037	phenylalanyl-tRNA synthetase subunit alpha	SAOUHSC_01092; <i>pheS</i>
SAUSA300_1038	phenylalanyl-tRNA synthetase subunit beta	SAOUHSC_01093; <i>pheT</i>
SAUSA300_1044	thioredoxin	SAOUHSC_01100; <i>trxA</i>
SAUSA300_1046	succinate dehydrogenase, cytochrome b-558 subunit	
SAUSA300_1049	glutamate racemase	SAOUHSC_01106; <i>murl</i>
SAUSA300_1050	non-canonical purine NTP pyrophosphatase, rdgB/HAM1 family	
SAUSA300_1052	fibrinogen-binding protein	
SAUSA300_1053	formyl peptide receptor-like 1 inhibitory protein	
SAUSA300_1055	fibrinogen-binding protein	
SAUSA300_1057	Conserved hypothetical protein	
SAUSA300_1066	tRNA-Arg	
SAUSA300_1067	antibacterial protein	
SAUSA300_1068	antibacterial protein	
SAUSA300_1072	cell division protein MraZ	
SAUSA300_1073	S-adenosyl-methyltransferase MraW	
SAUSA300_1074	cell division protein	SAOUHSC_01144; <i>ftsL</i>
SAUSA300_1075	penicillin-binding protein 1	SAOUHSC_01145; <i>pbpA</i>
SAUSA300_1076	phospho-N-acetylmuramoyl- pentapeptide- transferase	SAOUHSC_01146; <i>mraY</i>
SAUSA300_1077	UDP-N-acetylmuramoyl-L-alanyl-D- glutamate synthetase	SAOUHSC_01147; <i>murD</i>
SAUSA300_1078	cell division protein	SAOUHSC_01148; <i>div1b</i>
SAUSA300_1079	cell division protein ftsA	SAOUHSC_01149; <i>ftsA</i>
SAUSA300_1080	cell division protein FtsZ	SAOUHSC_01150; <i>ftsZ</i>
SAUSA300_1082	Conserved hypothetical protein	
SAUSA300_1083	Conserved hypothetical protein	SAOUHSC_01154

SAUSA300_1086	Conserved hypothetical protein	
SAUSA300_1087	isoleucyl-tRNA synthetase	SAOUHSC_01159; <i>ileS</i>
SAUSA300_1091	bifunctional pyrimidine regulatory protein PyrR uracil phosphoribosyltransferase	
SAUSA300_1099	Conserved hypothetical protein	
SAUSA300_1100	Conserved hypothetical protein	
SAUSA300_1102	guanylate kinase	SAOUHSC_01176; <i>gmk</i>
SAUSA300_1103	DNA-directed RNA polymerase subunit omega	
SAUSA300_1104	phosphopantothenoylcysteine decarboxylase/phosphopantothenate--cysteine ligase	SAOUHSC_01178
SAUSA300_1105	primosomal protein N`	SAOUHSC_01179; <i>priA</i>
SAUSA300_1107	Conserved hypothetical protein	
SAUSA300_1108	peptide deformylase	
SAUSA300_1109	methionyl-tRNA formyltransferase	SAOUHSC_01183
SAUSA300_1115	ribulose-phosphate 3-epimerase	SAOUHSC_01189
SAUSA300_1117	50S ribosomal protein L28	SAOUHSC_01191; <i>rpmB</i>
SAUSA300_1122	putative glycerol-3-phosphate acyltransferase PlsX	SAOUHSC_01197; <i>plsX</i>
SAUSA300_1123	malonyl CoA-acyl carrier protein transacylase	SAOUHSC_01198; <i>fabD</i>
SAUSA300_1124	3-oxoacyl-(acyl-carrier-protein) reductase	SAOUHSC_01199; <i>fabG</i>
SAUSA300_1125	acyl carrier protein	SAOUHSC_01201; <i>hmrB</i>
SAUSA300_1128	signal recognition particle-docking protein FtsY	SAOUHSC_01205
SAUSA300_1129	putative DNA-binding protein	
SAUSA300_1130	signal recognition particle protein	SAOUHSC_01207; <i>ffh</i>
SAUSA300_1131	30S ribosomal protein S16	SAOUHSC_01208; <i>rpsP</i>
SAUSA300_1132	16S rRNA-processing protein RimM	SAOUHSC_01209; <i>rimM</i>
SAUSA300_1133	tRNA (guanine-N(1)-methyltransferase	SAOUHSC_01210; <i>trmD</i>
SAUSA300_1134	50S ribosomal protein L19	SAOUHSC_01211; <i>rplS</i>
SAUSA300_1136	ribosomal biogenesis GTPase	SAOUHSC_01214
SAUSA300_1137	ribonuclease HII	
SAUSA300_1143	DNA topoisomerase I	SAOUHSC_01222
SAUSA300_1146	ATP-dependent protease peptidase subunit	
SAUSA300_1149	30S ribosomal protein S2	SAOUHSC_01232; <i>rpsB</i>
SAUSA300_1150	elongation factor Ts	SAOUHSC_01234
SAUSA300_1151	uridylate kinase	SAOUHSC_01235; <i>smbH</i>
SAUSA300_1152	ribosome recycling factor	SAOUHSC_01236; <i>frr</i>
SAUSA300_1153	undecaprenyl pyrophosphate synthase	SAOUHSC_01237; <i>uppS</i>
SAUSA300_1154	phosphatidate cytidyltransferase	SAOUHSC_01238; <i>cdsA</i>

SAUSA300_1155	putative membrane-associated zinc metalloprotease	
SAUSA300_1156	prolyl-tRNA synthetase	SAOUHSC_01240; <i>proS</i>
SAUSA300_1157	DNA polymerase III PolC	SAOUHSC_01241; <i>polC</i>
SAUSA300_1158	hypothetical protein	
SAUSA300_1159	transcription elongation factor NusA	SAOUHSC_01243; <i>nusA</i>
SAUSA300_1160	hypothetical protein	SaOUHSC_01244
SAUSA300_1161	ribosomal protein L7Ae	SAOUHSC_01245
SAUSA300_1162	translation initiation factor IF-2	SAOUHSC_01246; <i>inlB</i>
SAUSA300_1165	riboflavin biosynthesis protein ribF	SAOUHSC_01249; <i>ribC</i>
SAUSA300_1166	30S ribosomal protein S15	SAOUHSC_01250; <i>rpsQ</i>
SAUSA300_1168	RNA-metabolising metallo-beta-lactamase	SAOUHSC_01252
SAUSA300_1176	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase	SAOUHSC_01260; <i>pgsA</i>
SAUSA300_1179	phosphodiesterase	Essential in <i>B. subtilis</i>
SAUSA300_1186	hypothetical protein	
SAUSA300_1200	glutamine synthetase repressor	SAOUHSC_01285; <i>glnR</i>
SAUSA300_1201	glutamine synthetase, type I	SAOUHSC_01287; <i>glnA</i>
SAUSA300_1202	Conserved hypothetical protein	
SAUSA300_1205	Conserved hypothetical protein	
SAUSA300_1209	Conserved hypothetical protein	
SAUSA300_1211	Conserved hypothetical protein	
SAUSA300_1212	Conserved hypothetical protein	
SAUSA300_1215	hypothetical protein	
SAUSA300_1221	Conserved hypothetical protein	
SAUSA300_1237	LexA repressor	SAOUHSC_01333; <i>lexA</i>
SAUSA300_1239	transketolase	SAOUHSC_01337; <i>tkt</i>
SAUSA300_1240	Conserved hypothetical protein	
SAUSA300_1241	Conserved hypothetical protein	
SAUSA300_1249	Conserved hypothetical protein	SAOUHSC_01350
SAUSA300_1250	DNA topoisomerase IV subunit B	SAOUHSC_01351; <i>parE</i>
SAUSA300_1251	DNA topoisomerase IV subunit A	SAOUHSC_0352; <i>parC</i>
SAUSA300_1257	peptide methionine sulfoxide reductase regulator MsrR	SAOUHSC_01361; <i>msrR</i>
SAUSA300_1263	anthranilate synthase component II	
SAUSA300_1269	methicillin resistance protein FemA	SAOUHSC_01373; <i>femA</i>
SAUSA300_1270	methicillin resistance protein FemB	SAOUHSC_01374; <i>femB</i>
SAUSA300_1277	Conserved hypothetical protein	
SAUSA300_1280	phosphate transporter ATP-binding protein	
SAUSA300_1295	CSD family cold shock protein	
SAUSA300_1299	putative tellurite resistance protein	
SAUSA300_1303	Conserved hypothetical protein	

SAUSA300_1311	undecaprenyldiphospho-muramoylpentapeptide beta-N-acetylglucosaminyltransferase	SAOUHSC_01424; <i>murG</i>
SAUSA300_1314	Conserved hypothetical protein	
SAUSA300_1319	dihydrofolate reductase	SAOUHSC_01434; <i>dfrA</i>
SAUSA300_1320	thymidylate synthase	SAOUHSC_01435; <i>thyA</i>
SAUSA300_1323	Conserved hypothetical protein	
SAUSA300_1325	Conserved hypothetical protein	
SAUSA300_1335	Conserved hypothetical protein	
SAUSA300_1340	Holliday junction-specific endonuclease	SAOUHSC_01466; <i>recU</i>
SAUSA300_1341	penicillin binding protein 2	SAOUHSC_01467; <i>pbp2</i>
SAUSA300_1344	putative DNA replication protein DnaD	SAOUHSC_01470
SAUSA300_1347	BirA bifunctional protein	SAOUHSC_01473
SAUSA300_1348	tRNA CCA-pyrophosphorylase	SAOUHSC_01474
SAUSA300_1350	Conserved hypothetical protein	
SAUSA300_1351	Conserved hypothetical protein	SAOUHSC_01477
SAUSA300_1355	<i>aroA</i> ; 3-phosphoshikimate 1-carboxyvinyltransferase	
SAUSA300_1360	ubiquinone/menaquinone biosynthesis methyltransferase	Essential in <i>B. subtilis</i>
SAUSA300_1361	hypothetical protein	Essential in <i>B. subtilis</i>
SAUSA300_1362	DNA-binding protein HU	SAOUHSC_01490; <i>hu</i>
SAUSA300_1364	GTP-binding protein EngA	SAOUHSC_01492
SAUSA300_1367	cytidylate kinase	SAOUHSC_01496; <i>cmk</i>
SAUSA300_1373	ferredoxin	SAOUHSC_01504; <i>fer</i>
SAUSA300_1375	Conserved hypothetical protein	
SAUSA300_1380	Conserved hypothetical protein	
SAUSA300_1381	lukF-PV; Panton-Valentine leukocidin, LukF-PV; K11	Not Present in NCTC8325 Genome
SAUSA300_1390	phiSLT ORF96-like protein	
SAUSA300_1396	phiSLT ORF151-like protein, major tail protein	
SAUSA300_1400	phiSLT ORF92-like protein	
SAUSA300_1405	phiSLT ORF 101-like protein, terminase, small subunit	
SAUSA300_1407	phi SLT ORF 145-like protein, phage transcriptional regulator	
SAUSA300_1411	phiSLT ORF66-like protein	
SAUSA300_1414	phiSLT ORF 78B-like protein	Not Present in NCTC8325 Genome
SAUSA300_1416	phiSLT ORF 81b-like protein	Not Present in NCTC8325 Genome
SAUSA300_1418	phiSLT ORF 82-like protein	Not Present in NCTC8325 Genome
SAUSA300_1420	hypothetical protein	Not Present in NCTC8325 Genome

SAUSA300_1431	phiSLT ORF71-like protein	
SAUSA300_1434	phiSLT ORF104a-like protein, repressor	Not Present in NCTC8325 Genome
SAUSA300_1436	phiSLT ORF144-like protein lipoprotein	Not Present in NCTC8325 Genome
SAUSA300_1439	Conserved hypothetical protein; pseudogene	Not Present in NCTC8325 Genome
SAUSA300_1446	hypothetical protein	
SAUSA300_1447	tyrosine recombinase XerD	
SAUSA300_1453	ribonuclease Z	
SAUSA300_1454	glucose-6-phosphate 1-dehydrogenase	SAOUHSC_01599
SAUSA300_1459	6-phosphogluconate dehydrogenase	SAOUHSC_01605
SAUSA300_1462	hypothetical protein	
SAUSA300_1466	2-oxoisovalerate dehydrogenase, E1 component, alpha subunit	
SAUSA300_1468	DNA repair protein RecN	
SAUSA300_1471	exodeoxyribonuclease VII small subunit	
SAUSA300_1475	acetyl-CoA carboxylase biotin carboxylase subunit	SAOUHSC_01623
SAUSA300_1476	acetyl-CoA carboxylase, biotin carboxyl carrier protein	SAOUHSC_01624
SAUSA300_1477	pseudogene	
SAUSA300_1490	elongation factor P	SAOUHSC_01625
SAUSA300_1493	Conserved hypothetical protein	
SAUSA300_1499	shikimate kinase	
SAUSA300_1510	5-formyltetrahydrofolate cyclo-ligase	
SAUSA300_1511	50S ribosomal protein L33	Essential in <i>B. subtilis</i>
SAUSA300_1516	ABC transporter ATP-binding protein	
SAUSA300_1520	Conserved hypothetical protein	SAOUHSC_01661
SAUSA300_1521	RNA polymerase sigma factor RpoD	SAOUHSC_01662; <i>sigA</i>
SAUSA300_1522	DNA primase	SAOUHSC_01663; <i>dnaG</i>
SAUSA300_1525	glycyl-tRNA synthetase	SAOUHSC_01666; <i>glyS</i>
SAUSA300_1526	DNA repair protein RecO	
SAUSA300_1527	<i>era</i> , <i>bex</i> , <i>rbaA</i> , <i>sdgE</i> , <i>yqfH</i> ; GTP-binding protein Er	SAOUHSC_01668; <i>bex</i>
SAUSA300_1528	cytidine deaminase	
SAUSA300_1530	Conserved hypothetical protein	SAOUHSC_01672
SAUSA300_1532	Conserved hypothetical protein	
SAUSA300_1535	<i>rpsU</i> ; 30S ribosomal protein S21; K02970 small subu	SAOUHSC_01678; <i>rpsU</i>
SAUSA300_1539	chaperone protein DnaJ	SAOUHSC_01682; <i>dnaJ</i>
SAUSA300_1540	molecular chaperone DnaK	SAOUHSC_01683; <i>dnaK</i>
SAUSA300_1541	heat shock protein GrpE	SAOUHSC_01684; <i>grpE</i>
SAUSA300_1546	DNA polymerase III subunit delta	SAOUHSC_01690

SAUSA300_1553	nicotinate (nicotinamide) nucleotide adenylyltransferase	SAOUHSC_01697
SAUSA300_1554	hypothetical protein	Essential in <i>B. subtilis</i>
SAUSA300_1556	GTP-binding protein YqeH	SAOUHSC_01700
SAUSA300_1557	HAD superfamily hydrolase	SAOUHSC_01701
SAUSA300_1562	LamB/YcsF family protein	
SAUSA300_1564	accB; acetyl-CoA carboxylase, biotin carboxyl carr	
SAUSA300_1567	transcription elongation factor GreA	SAOUHSC_01714; <i>greA</i>
SAUSA300_1572	conserved hypothetical protein	
SAUSA300_1574	hypothetical protein	SAOUHSC_01721
SAUSA300_1575	alanyl-tRNA synthetase	SAOUHSC_01722; <i>alaS</i>
SAUSA300_1578	tRNA-specific 2-thiouridylase MnmA	SAOUHSC_01725
SAUSA300_1579	aminotransferase, class V	SAOUHSC_01726
SAUSA300_1581	Conserved hypothetical protein	
SAUSA300_1582	Conserved hypothetical protein	
SAUSA300_1586	aspartyl-tRNA synthetase	SAOUHSC_01737; <i>aspS</i>
SAUSA300_1587	histidyl-tRNA synthetase	SAOUHSC_01738; <i>hisS</i>
SAUSA300_1589	D-tyrosyl-tRNA(Tyr) deacylase	SAOUHSC_01741
SAUSA300_1591	adenine phosphoribosyltransferase	SAOUHSC_01741
SAUSA300_1593	bifunctional preprotein translocase subunit SecD/SecE	SAOUHSC_01746; <i>secF</i>
SAUSA300_1597	Holliday junction DNA helicase RuvB	SAOUHSC_01750; <i>ruvB</i>
SAUSA300_1598	Holliday junction DNA helicase RuvA	SAOUHSC_01751; <i>ruvA</i>
SAUSA300_1600	GTPase ObgE	SAOUHSC_01753; <i>obg</i>
SAUSA300_1601	50S ribosomal protein L27	SaOUHSC_01755; <i>rpmA</i>
SAUSA300_1602	Conserved hypothetical protein	SAOUHSC_01756
SAUSA300_1603	50S ribosomal protein L21	SAOUHSC_01757; <i>rplU</i>
SAUSA300_1606	Conserved hypothetical protein	
SAUSA300_1608	DNA repair protein RadC	
SAUSA300_1610	folylpolyglutamate synthase	SAOUHSC_01766; <i>folC</i>
SAUSA300_1611	valyl-tRNA synthetase	SAOUHSC_01767; <i>valS</i>
SAUSA300_1616	uroporphyrinogen III synthase	
SAUSA300_1617	porphobilinogen deaminase	
SAUSA300_1624	MutT/nudix family protein	SAOUHSC_01782
SAUSA300_1625	50S ribosomal protein L20	SAOUHSC_01784; <i>rpiT</i>
SAUSA300_1626	50S ribosomal protein L35	SAOUHSC_01785; <i>rplM</i>
SAUSA300_1627	translation initiation factor IF-3	SAOUHSC_01786; <i>inlC</i>
SAUSA300_1630	primosomal protein Dnal	SAOUHSC_01791; <i>dnal</i>
SAUSA300_1631	replication initiation and membrane attachment protein	SAOUHSC_01792; <i>dnaB</i>
SAUSA300_1632	transcriptional regulator NrdR	
SAUSA300_1634	dephospho-CoA kinase	SAOUHSC_01729

SAUSA300_1635	formamidopyrimidine-DNA glycosylase	
SAUSA300_1643	Transposase; pseudogene	
SAUSA300_1647	acetyl-CoA carboxylase subunit beta	SAOUHSC_01809
SAUSA300_1649	DNA polymerase III, alpha subunit	SAOUHSC_01811; <i>dnaE</i>
SAUSA300_1656	universal stress protein	
SAUSA300_1657	ackA; acetate kinase	
SAUSA300_1664	septation ring formation regulator EzrA	SAOUHSC_01827
SAUSA300_1666	30S ribosomal protein S4	SAOUHSC_01829; <i>rpsD</i>
SAUSA300_1673	1-acyl-sn-glycerol-3-phosphate acyltransferases	SAOUHSC_01837
SAUSA300_1675	tyrosyl-tRNA synthetase	SAOUHSC_01839; <i>tyrS</i>
SAUSA300_1685	Conserved hypothetical protein	
SAUSA300_1686	UDP-N-acetylmuramate--L-alanine ligase	SAOUHSC_01856; <i>murC</i>
SAUSA300_1688	phenylalanyl-tRNA synthetase (beta subunit)	
SAUSA300_1689	hypothetical protein	
SAUSA300_1690	putative thioredoxin	
SAUSA300_1700	polysaccharide biosynthesis protein	SAOUHSC_01871
SAUSA300_1703	rhodanese-like domain-containing protein	
SAUSA300_1704	leucyl-tRNA synthetase	SAOUHSC_01875; <i>leuS</i>
SAUSA300_1709	Transposase; pseudogene	Not Present in NCTC8325 Genome
SAUSA300_1723	Conserved hypothetical protein	
SAUSA300_1726	crcB family protein	
SAUSA300_1727	Transposase; pseudogene	Not Present in NCTC8325 Genome
SAUSA300_1729	Conserved hypothetical protein	SAOUHSC_01908
SAUSA300_1730	S-adenosylmethionine synthetase	SAOUHSC_01909; <i>metK</i>
SAUSA300_1735	O-succinylbenzoic acid synthetase	Essential in <i>B. subtilis</i>
SAUSA300_1736	hypothetical protein	
SAUSA300_1737	O-succinylbenzoate-CoA ligase	Essential in <i>B. subtilis</i>
SAUSA300_1746	hypothetical protein	
SAUSA300_1748	Transposase; pseudogene	SAOUHSC_01928
SAUSA300_1767	lantibiotic epidermin biosynthesis protein EpiA	
SAUSA300_1772	tRNA-Ser	
SAUSA300_1773	tRNA-Glu	
SAUSA300_1774	tRNA-Asn	
SAUSA300_1775	tRNA-Gly	
SAUSA300_1776	tRNA-His	
SAUSA300_1777	tRNA-Phe	
SAUSA300_1778	tRNA-Asp	

SAUSA300_1779	tRNA-Met	
SAUSA300_1782	hemH; ferrochelatase	
SAUSA300_1786	ABC transporter ATP-binding protein EcsA	
SAUSA300_1790	foldase protein PrsA	SAOUHSC_01972; <i>prsA</i>
SAUSA300_1794	Conserved hypothetical protein	
SAUSA300_1795	Conserved hypothetical protein	
SAUSA300_1798	DNA-binding response regulator	
SAUSA300_1803	Conserved hypothetical protein	
SAUSA300_1811	tRNA-Leu	
SAUSA300_1812	tRNA-other	
SAUSA300_1813	<u>tRNA-Gly</u>	
SAUSA300_1814	<u>tRNA-Cys</u>	
SAUSA300_1815	tRNA-Gln	
SAUSA300_1816	tRNA-His	
SAUSA300_1817	<u>tRNA-Trp</u>	
SAUSA300_1818	<u>tRNA-Tyr</u>	
SAUSA300_1819	<u>tRNA-Thr</u>	
SAUSA300_1820	<u>tRNA-Phe</u>	
SAUSA300_1821	tRNA-Asp	
SAUSA300_1822	tRNA-Met	
SAUSA300_1823	tRNA-Ser	
SAUSA300_1824	tRNA-Asp	
SAUSA300_1825	tRNA-Ser	
SAUSA300_1826	tRNA-Met	
SAUSA300_1827	tRNA-Met	
SAUSA300_1828	<u>tRNA-Ala</u>	
SAUSA300_1829	tRNA-Pro	
SAUSA300_1830	tRNA-Arg	
SAUSA300_1831	tRNA-Leu	
SAUSA300_1832	<u>tRNA-Gly</u>	
SAUSA300_1833	<u>tRNA-Leu</u>	
SAUSA300_1834	tRNA-Lys	
SAUSA300_1835	<u>tRNA-Thr</u>	
SAUSA300_1836	tRNA-Val	
SAUSA300_1837	rrfC; 5S ribosomal RNA	
SAUSA300_1838	rrlC; 23S ribosomal RNA	
SAUSA300_1839	tRNA-Ala	
SAUSA300_1840	tRNA-Ile	
SAUSA300_1841	rrsC; 16S ribosomal RNA	
SAUSA300_1856	Conserved hypothetical protein	
SAUSA300_1863	Conserved hypothetical protein	
SAUSA300_1869	methionine aminopeptidase	SAOUHSC_02102; <i>map</i>

SAUSA300_1872	hypothetical protein	SAOUHSC_02106
SAUSA300_1873	Mur ligase family protein	SAOUHSC_02107
SAUSA300_1874	ferritins family protein	
SAUSA300_1877	Conserved hypothetical protein	
SAUSA300_1880	aspartyl/glutamyl-tRNA amidotransferase subunit B	SAOUHSC_02116
SAUSA300_1881	aspartyl/glutamyl-tRNA amidotransferase subunit A	SAOUHSC_02117
SAUSA300_1882	aspartyl/glutamyl-tRNA amidotransferase subunit C	SAOUHSC_02118
SAUSA300_1886	ATP-dependent DNA helicase, PcrA	SAOUHSC_02123; <i>pcrA</i>
SAUSA300_1891	Conserved hypothetical protein	
SAUSA300_1893	NAD synthetase	SAOUHSC_02132; <i>nadE</i>
SAUSA300_1894	nicotinate phosphoribosyltransferase	SAOUHSC_02133
SAUSA300_1900	putative manganese-dependent inorganic pyrophosphatase	SAOUHSC_02140
SAUSA300_1910	hypothetical protein	SAOUHSC_02151
SAUSA300_1913	ABC transporter ATP-binding protein	
SAUSA300_1914	GntR family regulatory protein	
SAUSA300_1915	hypothetical protein	
SAUSA300_1917	map protein; pseudogene	
SAUSA300_1931	phi77 ORF100-like protein	Not Present in NCTC8325 Genome
SAUSA300_1933	hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_1944	phi77 ORF026-like protein phage transcriptional activator	Not Present in NCTC8325 Genome
SAUSA300_1951	phiPVL ORF052-like protein	
SAUSA300_1954	phiPVL ORF050-like protein	
SAUSA300_1956	hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_1959	phiPVL ORF044-like protein	Not Present in NCTC8325 Genome
SAUSA300_1963	hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_1965	hypothetical protein	Not Present in NCTC8325 Genome
SAUSA300_1982	chaperonin GroEL	SAOUHSC_02254; <i>groEL</i>
SAUSA300_1983	co-chaperonin GroES	SAOUHSC_02255; <i>groES</i>
SAUSA300_1988	delta-hemolysin	SAOUHSC_02260; <i>hld</i>
SAUSA300_1997	Conserved hypothetical protein	
SAUSA300_2002	putative DNA-binding/iron metalloprotein/AP endonuclease	SAOUHSC_02277
SAUSA300_2004	Conserved hypothetical protein	SAOUHSC_02279
SAUSA300_2005	Conserved hypothetical protein	SAOUHSC_02280
SAUSA300_2015	rrfD; 5S ribosomal RNA	

SAUSA300_2016	rrlD; 23S ribosomal RNA	
SAUSA300_2017	rrsD; 16S ribosomal RNA	
SAUSA300_2018	tRNA-Gly	
SAUSA300_2019	tRNA-Leu	
SAUSA300_2028	4'-phosphopantetheinyl transferase	SAOUHSC_02306; <i>dprj</i>
SAUSA300_2029	Conserved hypothetical protein	
SAUSA300_2038	UDP-N-acetylmuramoyl-tripeptide--D-alanyl-D- alanine ligase	SAOUHSC_02317; <i>murF</i>
SAUSA300_2039	D-alanyl-alanine synthetase A	SAOUHSC_02318; <i>ddlA</i>
SAUSA300_2041	Conserved hypothetical protein	
SAUSA300_2046	membrane protein oxaA	SAOUHSC_02327
SAUSA300_2051	Conserved hypothetical protein	
SAUSA300_2053	Conserved hypothetical protein	
SAUSA300_2054	(3R)-hydroxymyristoyl-ACP dehydratase	SAOUHSC_02336
SAUSA300_2057	F0F1 ATP synthase subunit epsilon	
SAUSA300_2063	F0F1 ATP synthase subunit C	
SAUSA300_2070	Conserved hypothetical protein	SAOUHSC_02357
SAUSA300_2072	peptide chain release factor 1	SAOUHSC_02359; <i>prfA</i>
SAUSA300_2074	50S ribosomal protein L31 type B	SAOUHSC_02361; <i>rpmE</i>
SAUSA300_2077	hypothetical protein	
SAUSA300_2081	CTP synthetase	SAOUHSC_02368; <i>ctrA</i>
SAUSA300_2084	pantothenate kinase	SAOUHSC_02371
SAUSA300_2104	glucosamine--fructose-6-phosphate aminotransferase	SAOUHSC_02399; <i>glmS</i>
SAUSA300_2113	hypothetical protein	SAOUHSC_02407
SAUSA300_2116	tRNA-Lys	
SAUSA300_2117	tRNA-Gln	
SAUSA300_2118	tRNA-Tyr	
SAUSA300_2119	tRNA-Val	
SAUSA300_2120	tRNA-Glu	
SAUSA300_2121	tRNA-Asn	
SAUSA300_2122	rrfE; 5S ribosomal RNA	
SAUSA300_2123	rrlE; 23S ribosomal RNA	
SAUSA300_2124	rrsE; 16S ribosomal RNA	
SAUSA300_2141	Transposase; pseudogene	Not Present in NCTC8325 Genome
SAUSA300_2142	alkaline shock protein 23	
SAUSA300_2143	Conserved hypothetical protein	
SAUSA300_2144	Conserved hypothetical protein	
SAUSA300_2164	Conserved hypothetical protein	
SAUSA300_2170	endonuclease/methylase LlaGI, degenerate	
SAUSA300_2171	30S ribosomal protein S9	SAOUHSC_02477; <i>rpsI</i>
SAUSA300_2172	50S ribosomal protein L13	SAOUHSC_02478; <i>rplM</i>

SAUSA300_2177	50S ribosomal protein L17	SAOUHSC_02484; <i>rpiQ</i>
SAUSA300_2178	DNA-directed RNA polymerase subunit alpha	SAOUHSC_02485; <i>rpoA</i>
SAUSA300_2179	30S ribosomal protein S11	SAOUHSC_02486; <i>rpsK</i>
SAUSA300_2180	30S ribosomal protein S13	SAOUHSC_02487; <i>rpsM</i>
SAUSA300_2181	50S ribosomal protein L36	SAOUHSC_02488; <i>rpmJ</i>
SAUSA300_2182	translation initiation factor IF-1	SAOUHSC_02489; <i>infA</i>
SAUSA300_2183	adenylate kinase	SAOUHSC_02490; <i>adk</i>
SAUSA300_2184	preprotein translocase subunit SecY	SAOUHSC_02491; <i>secY</i>
SAUSA300_2185	50S ribosomal protein L15	SAOUHSC_02492; <i>rplO</i>
SAUSA300_2186	50S ribosomal protein L30	SAOUHSC_02493; <i>rpmD</i>
SAUSA300_2187	30S ribosomal protein S5	SAOUHSC_02494; <i>rpsE</i>
SAUSA300_2188	50S ribosomal protein L18	SAOUHSC_02495; <i>rplR</i>
SAUSA300_2189	50S ribosomal protein L6	SAOUHSC_02496; <i>rplF</i>
SAUSA300_2190	30S ribosomal protein S8	SAOUHSC_02498; <i>rpsH</i>
SAUSA300_2191	30S ribosomal protein S14	SAOUHSC_02499; <i>rpsN</i>
SAUSA300_2192	50S ribosomal protein L5	SAOUHSC_02500; <i>rplE</i>
SAUSA300_2193	50S ribosomal protein L24	SAOUHSC_02501; <i>rplX</i>
SAUSA300_2194	50S ribosomal protein L14	SAOUHSC_02502; <i>rplN</i>
SAUSA300_2195	30S ribosomal protein S17	SAOUHSC_02503; <i>rpsQ</i>
SAUSA300_2196	50S ribosomal protein L29	SAOUHSC_02504; <i>rpmC</i>
SAUSA300_2197	50S ribosomal protein L16	SAOUHSC_02505; <i>rplP</i>
SAUSA300_2198	30S ribosomal protein S3	SAOUHSC_02506; <i>rpsC</i>
SAUSA300_2199	50S ribosomal protein L22	SAOUHSC_02507; <i>rplV</i>
SAUSA300_2200	30S ribosomal protein S19	SAOUHSC_02508; <i>rpsS</i>
SAUSA300_2201	50S ribosomal protein L2	SAOUHSC_02509; <i>rplB</i>
SAUSA300_2202	50S ribosomal protein L23	SAOUHSC_02510; <i>rplW</i>
SAUSA300_2203	50S ribosomal protein L4	SAOUHSC_02511; <i>rplD</i>
SAUSA300_2204	50S ribosomal protein L3	SAOUHSC_02512; <i>rplC</i>
SAUSA300_2205	30S ribosomal protein S10	
SAUSA300_2214	FmhB protein	SAOUHSC_02527; <i>fmhB</i>
SAUSA300_2229	molybdenum ABC transporter permease ModB	
SAUSA300_2241	urease accessory protein UreE	
SAUSA300_2245	accessory regulator R	
SAUSA300_2261	Conserved hypothetical protein	
SAUSA300_2339	Conserved hypothetical protein	
SAUSA300_2370	putative 8-amino-7-oxononanoate synthase	
SAUSA300_2380	Conserved hypothetical protein	
SAUSA300_2399	ABC transporter ATP-binding protein	
SAUSA300_2422	Conserved hypothetical protein	
SAUSA300_2425	short chain dehydrogenase/reductase family oxidoreductase	

SAUSA300_2426	Conserved hypothetical protein	
SAUSA300_2427	Conserved hypothetical protein	
SAUSA300_2429	tandem lipoprotein	
SAUSA300_2430	tandem lipoprotein	
SAUSA300_2435	cell wall surface anchor family protein	
SAUSA300_2444	gluconate operon transcriptional repressor	
SAUSA300_2447	Conserved hypothetical protein	
SAUSA300_2465	ABC transporter ATP-binding protein	
SAUSA300_2469	L-serine dehydratase, iron-sulfur-dependent, alpha subunit	
SAUSA300_2474	Conserved hypothetical protein	
SAUSA300_2483	hydroxymethylglutaryl-CoA reductase	SAOUHSC_02859; <i>mvaA</i>
SAUSA300_2484	hydroxymethylglutaryl-CoA synthase	SAOUHSC_02860; <i>mvaS</i>
SAUSA300_2506	immunodominant antigen A	
SAUSA300_2512	glyoxalase family protein	
SAUSA300_2524	Conserved hypothetical protein	
SAUSA300_2562	hypothetical protein	
SAUSA300_2563	putative transcriptional regulator	
SAUSA300_2574	Conserved hypothetical protein	
SAUSA300_2580	isochorismatase family protein	
SAUSA300_2590	Conserved hypothetical protein	
SAUSA300_2591	Conserved hypothetical protein	
SAUSA300_2592	Conserved hypothetical protein	
SAUSA300_2619	Conserved hypothetical protein	
SAUSA300_2625	PadR family transcriptional regulator	
SAUSA300_2638	hypothetical protein	
SAUSA300_2639	cold shock protein	
SAUSA300_2647	ribonuclease P	SAOUHSC_03054; <i>rnpA</i>
SAUSA300_2648	50S ribosomal protein L34	SAOUHSC_03055; <i>rpmH</i>

*NCTC 8325 accession number listed if gene considered essential as reported by Chaudhuri et al (6).