

Table 2. Gene expression ratios for the $\Delta yceP$ biofilm relative to the wild-type biofilm in LB glu. Only genes consistently expressed more than 2-fold in both data sets are shown. AI-2, stress, and stationary phase signal (indole) related gene references are shown.

Gene	b-no	fold change #1	fold change #2	Product	AI-2	Stress	indole
Information storage and processing							
Translation							
<i>aspV</i>	<i>b0216</i>	-3.48	-2.64	tRNA ^{asp} V			
<i>leuS</i>	<i>b0642</i>	-2.30	-2.30	leucine tRNA synthetase			
<i>rpsA</i>	<i>b0911</i>	-2.14	-2.83	30S ribosomal subunit protein S1			
<i>rnpB</i>	<i>b3123</i>	-2.64	-3.73	RnpB RNA, catalytic subunit of RNase P			
<i>metY</i>	<i>b3171</i>	-2.30	-3.25	tRNA ^{met} Y			
<i>rplU</i>	<i>b3186</i>	-4.29	-2.46	50S ribosomal subunit protein L21			
<i>rplM</i>	<i>b3231</i>	-2.46	-2.64	50S ribosomal subunit protein L13			
<i>thrV</i>	<i>b3273</i>	-2.30	-2.14	tRNA ^{thr} V			
<i>alaU</i>	<i>b3276</i>	-2.30	-2.83	tRNA ^{ala} U			
<i>rplQ</i>	<i>b3294</i>	-3.03	-2.83	50S ribosomal subunit protein L17			
<i>rpsD</i>	<i>b3296</i>	-3.73	-2.64	30S ribosomal subunit protein S4			
<i>rpsK</i>	<i>b3297</i>	-3.03	-2.64	30S ribosomal subunit protein S11	(7)		
<i>rpsM</i>	<i>b3298</i>	-2.83	-3.03	30S ribosomal subunit protein S13			
<i>rpmJ</i>	<i>b3299</i>	-3.48	-3.48	50S ribosomal subunit protein L36			
<i>rplO</i>	<i>b3301</i>	-3.48	-3.48	50S ribosomal subunit protein L15			
<i>rpmD</i>	<i>b3302</i>	-3.03	-3.48	50S ribosomal subunit protein L30			
<i>rpsE</i>	<i>b3303</i>	-3.25	-2.46	30S ribosomal subunit protein S5			
<i>rplR</i>	<i>b3304</i>	-3.03	-2.83	50S ribosomal subunit protein L18	(7)		
<i>rplF</i>	<i>b3305</i>	-2.64	-2.83	50S ribosomal subunit protein L6			
<i>rpsH</i>	<i>b3306</i>	-2.30	-3.03	30S ribosomal subunit protein S8, and regulator			
<i>rpsN</i>	<i>b3307</i>	-2.30	-3.25	30S ribosomal subunit protein S14			
<i>rplX</i>	<i>b3309</i>	-2.46	-3.03	50S ribosomal subunit protein L24	(7)		
<i>rplN</i>	<i>b3310</i>	-2.14	-3.03	50S ribosomal subunit protein L14	(7)		
<i>rpmC</i>	<i>b3312</i>	-3.25	-2.30	50S ribosomal subunit protein L29			
<i>tufA</i>	<i>b3339</i>	-2.14	-2.64	protein chain elongation factor EF-Tu			
<i>fusA</i>	<i>b3340</i>	-2.46	-2.30	GTP-binding protein chain elongation factor EF-G			
<i>rpmG</i>	<i>b3636</i>	-2.30	-2.64	50S ribosomal subunit protein L33			
<i>rpmB</i>	<i>b3637</i>	-2.30	-2.64	50S ribosomal subunit protein L28			
<i>thrU</i>	<i>b3976</i>	-3.48	-2.30	tRNA ^{thr} U			
<i>tufB</i>	<i>b3980</i>	-2.64	-3.03	protein chain elongation factor EF-Tu			
<i>rplJ</i>	<i>b3985</i>	-3.25	-2.64	50S ribosomal subunit protein L10			
<i>rplL</i>	<i>b3986</i>	-3.25	-2.30	50S ribosomal subunit protein L7, L12			

<i>rpsF</i>	<i>b4200</i>	-2.83	-2.14	30S ribosomal subunit protein S6			
<i>rpsR</i>	<i>b4202</i>	-3.03	-2.14	30S ribosomal subunit protein S18			
<i>prfC</i>	<i>b4375</i>	2.30	3.73	peptide chain release factor RF-3			
<i>lasT</i>	<i>b4403</i>	3.03	4.92	hypothetical protein			
Transcription							
<i>yahB</i>	<i>b0316</i>	2.46	6.06	putative transcriptional regulator (LysR family)			
<i>ybaO</i>	<i>b0447</i>	5.28	4.92	putative LRP-like transcriptional regulator			
<i>hha</i>	<i>b0460</i>	6.96	7.46	haemolysin expression modulating protein			(3)
<i>ybeF</i>	<i>b0629</i>	2.14	2.30	putative transcriptional regulator or putative periplasmic binding protein			
<i>cspD</i>	<i>b0880</i>	-3.73	-3.03	DNA replication inhibitor, nucleic acid-binding domain, transcriptional regulator			
<i>ymfK</i>	<i>b1145</i>	2.64	5.66	e14 prophage, putative phage repressor			(5)
<i>cysB</i>	<i>b1275</i>	8.00	4.92	positive transcriptional regulator for cysteine regulon			
<i>ydcN</i>	<i>b1434</i>	3.03	6.96	putative regulator			
<i>ydeO</i>	<i>b1499</i>	2.83	18.38	putative ARAC-type regulatory protein			
<i>cspF</i>	<i>b1558</i>	2.64	18.38	transcriptional regulator, Qin prophage, cold shock protein			
<i>sdiA</i>	<i>b1916</i>	8.00	10.56	transcriptional activator for cell division (LuxR, UhpA family)	(3)	(2)	(6)
<i>rcsA</i>	<i>b1951</i>	2.14	2.46	positive regulator for ctr capsule biosynthesis, positive transcription factor			
<i>yegW</i>	<i>b2101</i>	2.14	2.64	putative transcriptional regulator			
<i>molR_1</i>	<i>b2115</i>	2.64	2.64	molybdate metabolism regulator, interrupted			
<i>molR_2</i>	<i>b2116</i>	2.46	8.00	twice split molybdate metabolism regulator			
<i>yfaH</i>	<i>b2238</i>	3.25	11.31	hypothetical protein			
<i>alpA</i>	<i>b2624</i>	4.92	9.85	CP4-57 prophage, transcriptional activator of a P4-like cryptic prophage			
<i>ygaV</i>	<i>b2667</i>	12.13	4.59	hypothetical protein			
<i>gutM</i>	<i>b2706</i>	4.92	3.48	glucitol operon transcriptional activator			
<i>hycA</i>	<i>b2725</i>	2.64	2.30	regulatory protein for HycE (part of the FHL complex), transcriptional regulator			
<i>rpoS</i>	<i>b2741</i>	-3.73	-3.25	RNA polymerase, sigma S factor, synthesis of many growth phase related proteins	(3)	(2)	
<i>ygfI</i>	<i>b2921</i>	2.30	13.93	putative transcriptional regulator (LysR family)			
<i>ygiT</i>	<i>b3021</i>	6.96	4.59	hypothetical protein			
<i>tdcR</i>	<i>b3119</i>	3.25	6.06	threonine dehydratase operon transcriptional activator protein			
<i>nlp</i>	<i>b3188</i>	2.46	2.83	transcriptional regulatory factor of maltose metabolism			
<i>yhcF</i>	<i>b3219</i>	2.46	11.31	putative transcriptional regulator			
<i>rpoA</i>	<i>b3295</i>	-4.92	-3.48	RNA polymerase, alpha subunit			
<i>xylR</i>	<i>b3569</i>	2.30	3.25	putative transcriptional regulator of xyl operon			
<i>yidL</i>	<i>b3680</i>	2.83	4.92	putative ARAC-type regulatory protein			
<i>yidP</i>	<i>b3684</i>	2.83	6.96	putative transcriptional regulator			
<i>bglG</i>	<i>b3723</i>	2.14	2.30	positive regulation of bgl operon			
<i>asnC</i>	<i>b3743</i>	3.03	3.48	AsnC transcriptional dual regulator			(5)
<i>rpoB</i>	<i>b3987</i>	-2.83	-2.14	RNA polymerase, beta subunit			
<i>cadC</i>	<i>b4133</i>	2.83	4.29	transcriptional activator of cad operon			
<i>yjfJ</i>	<i>b4182</i>	2.14	2.14	conserved hypothetical protein			

<i>ytfA</i>	<i>b4205</i>	2.46	8.00	hypothetical protein	
DNA replication, recombination and repair					
<i>insA_2</i>	<i>b0275</i>	2.64	3.48	CP4-6 prophage, IS1 protein InsA	(5)
<i>pinR</i>	<i>b1374</i>	4.00	4.59	Rac prophage, putative transposon resolvase	
<i>yi22_2</i>	<i>b1402</i>	2.30	2.14	IS2 hypothetical protein	
<i>ydcM</i>	<i>b1432</i>	2.30	9.19	putative virulence protein	
<i>intQ</i>	<i>b1579</i>	2.46	3.73	Qin prophage, putative transposase	
<i>tus</i>	<i>b1610</i>	8.00	4.59	DNA-binding protein, inhibition of replication at Ter sites	
<i>nth</i>	<i>b1633</i>	6.96	10.56	endonuclease III, specific for apurinic and, or apyrimidinic sites	
<i>insA_5</i>	<i>b1894</i>	3.25	4.92	IS1 protein InsA	(5)
<i>yfjY</i>	<i>b2644</i>	2.64	2.64	CP4-57 prophage, putative DNA repair protein	
<i>priB</i>	<i>b4201</i>	-2.83	-2.30	primosomal replication protein N	
<i>yjhS</i>	<i>b4309</i>	2.64	8.57	conserved hypothetical protein	
<i>yigW_2</i>	<i>b4483</i>	2.64	6.50	magnesium-dependent cytoplasmic DNase	
Cellular processes					
Cell division and chromosome partitioning					
<i>ftsL</i>	<i>b0083</i>	-3.48	-2.14	essential cell division protein, ingrowth of wall at septum	
<i>yefM</i>	<i>b2017</i>	6.06	3.48	antitoxin of the YoeB-YefM toxin-antitoxin pair	
<i>yhdJ</i>	<i>b3262</i>	2.30	2.83	cell cycle-regulated methyltransferase	
Posttranslational modification, protein turnover, chaperones					
<i>clpX</i>	<i>b0438</i>	-2.46	-2.30	ATP-dependent specificity component of clpP serine protease, chaperone	
<i>citC</i>	<i>b0618</i>	7.46	6.96	citrate lyase synthetase (citrate (pro-3S)-lyase ligase	
<i>ybiY</i>	<i>b0824</i>	2.83	13.93	putative pyruvate formate lyase activating enzyme	
<i>nrfE</i>	<i>b4074</i>	2.46	8.00	formate-dependent nitrite reductase, possible assembly function	
<i>nrfG</i>	<i>b4076</i>	2.30	4.92	part of formate-dependent nitrite reductase complex	
Cell envelope biogenesis, outer membrane					
<i>murE</i>	<i>b0085</i>	-2.46	-2.14	UDP-N-acetylmuramoylalanyl-D-glutamate 2,6-diaminopimelate ligase	(6)
<i>phoE</i>	<i>b0241</i>	3.03	2.00	Outer membrane pore protein E	
<i>lpxC</i>	<i>b0096</i>	-2.46	-3.48	UDP-3-O-acyl N-acetylglucosamine deacetylase	
<i>yaeT</i>	<i>b0177</i>	-3.48	-2.14	protein with possible extracytoplasmic function	(3)
<i>hlpA</i>	<i>b0178</i>	-2.64	-2.30	periplasmic molecular chaperone for outer membrane proteins	
<i>csge</i>	<i>b1039</i>	3.25	8.57	curli production assembly, transport component, 2nd curli operon	
<i>rspA</i>	<i>b1581</i>	2.30	18.38	putative dehydratase, starvation-sensing protein	
<i>cfa</i>	<i>b1661</i>	-2.46	-2.14	cyclopropane fatty acyl phospholipid synthase	
<i>ydiY</i>	<i>b1722</i>	2.14	6.50	conserved hypothetical protein	
<i>yeeZ</i>	<i>b2016</i>	2.14	3.03	putative enzyme of sugar metabolism	
<i>wcaE</i>	<i>b2055</i>	3.03	19.70	putative colanic acid biosynthesis glycosyl transferase	
<i>wcaA</i>	<i>b2059</i>	4.00	3.48	putative glycosyl transferase, colanic acid synthesis	
<i>ompC</i>	<i>b2215</i>	-2.83	-2.14	outer membrane pore protein, OmpC	(6)
<i>ypdI</i>	<i>b2376</i>	2.83	9.85	colanic acid synthesis lipoprotein	

<i>yfiB</i>	<i>b2605</i>	3.03	6.96	putative outer membrane protein		
<i>pbl</i>	<i>b2854</i>	4.00	7.46	conserved protein, lysozyme-like		
<i>agaS</i>	<i>b3136</i>	3.25	3.25	putative tagatose-6-phosphate aldose, ketose isomerase		
<i>acrE</i>	<i>b3265</i>	18.38	9.19	indole transport, transmembrane protein, cell membrane permeability		(8)
<i>yhfN</i>	<i>b3371</i>	3.03	10.56	fructoselysine 6-phosphate deglycase monomer		
<i>yiaT</i>	<i>b3584</i>	2.14	2.46	putative outer membrane protein		
<i>yibD</i>	<i>b3615</i>	2.64	2.14	putative glycosyltransferase		
<i>gidB</i>	<i>b3740</i>	2.46	3.48	glucose-inhibited division protein, protein with a methyltransferase fold and role in chromosome replication		
Cell motility and secretion						
<i>yadC</i>	<i>b0135</i>	2.46	2.64	putative fimbrial-like protein		
<i>ybgP</i>	<i>b0717</i>	2.14	4.00	putative chaperone		
<i>ybgD</i>	<i>b0719</i>	2.14	3.25	putative fimbrial-like protein		
<i>flgI</i>	<i>b1080</i>	7.46	4.92	homolog of Salmonella P-ring of flagella basal body	(5)	(4)
<i>flhA</i>	<i>b1879</i>	2.14	8.00	flagellar biosynthesis, possible export of flagellar proteins		
<i>cheZ</i>	<i>b1881</i>	2.30	6.50	chemotactic response, CheY protein phosphatase	(5)	(2)
<i>fliL</i>	<i>b1944</i>	2.46	3.25	flagellar biosynthesis	(5)	
<i>fliQ</i>	<i>b1949</i>	3.25	5.66	flagellar biosynthesis	(5, 7)	
<i>fliR</i>	<i>b1950</i>	2.64	2.46	flagellar biosynthesis	(7)	
<i>yehC</i>	<i>b2110</i>	2.14	2.83	putative chaperone		
<i>yfcV</i>	<i>b2339</i>	3.03	4.92	putative fimbrial-like protein		
<i>ygiL</i>	<i>b3043</i>	2.83	2.83	putative fimbrial-like protein		
<i>yhcA</i>	<i>b3215</i>	4.29	14.93	putative chaperone		
<i>yhcD</i>	<i>b3216</i>	2.14	3.25	putative outer membrane protein		
<i>fimC</i>	<i>b4316</i>	2.14	3.03	periplasmic chaperone, required for type 1 fimbriae		
<i>fimD</i>	<i>b4317</i>	3.03	7.46	outer membrane protein, export and assembly of type 1 fimbriae, interrupted		
Inorganic ion transport and metabolism						
<i>phoA</i>	<i>b0383</i>	2.00	3.73	Alkaline phosphatase protein		(6)
<i>phoR</i>	<i>b0400</i>	2.00	2.64	Phosphate regulon sensor protein PhoR		(6)
<i>ybjW</i>	<i>b0873</i>	4.00	4.92	hybrid-cluster protein, hydroxylamine reductase		
<i>yncD</i>	<i>b1451</i>	2.30	2.64	Probable TonB-dependent receptor		
<i>ydiE</i>	<i>b1705</i>	3.73	3.25	conserved hypothetical protein		
<i>ftn</i>	<i>b1905</i>	2.30	2.83	cytoplasmic ferritin (an iron storage protein)		
<i>b1995</i>	<i>b1995</i>	6.06	8.00	CP4-44 prophage, putative hemine receptor, predicted zinc-regulated protein		
<i>yfeO</i>	<i>b2389</i>	2.30	3.48	hypothetical protein		
<i>focB</i>	<i>b2492</i>	14.93	2.64	probable formate transporter (formate channel 2)		
<i>ygaP</i>	<i>b2668</i>	9.19	5.66	putative phosphatase		
<i>nirD</i>	<i>b3366</i>	3.73	8.57	nitrite reductase (NAD(P)H) subunit		
<i>yieL</i>	<i>b3719</i>	6.06	6.50	putative xylanase		
<i>phnG</i>	<i>b4101</i>	2.46	3.03	phosphonate metabolism		

<i>phnC</i>	<i>b4106</i>	2.14	3.48	ATP-binding component of phosphonate transport, ABC transporter	
Signal transduction mechanisms					
<i>fimZ</i>	<i>b0535</i>	2.14	13.93	fimbrial protein Z, putative transcriptional regulator of fimbrial expression	
<i>ycdT</i>	<i>b1025</i>	4.29	4.00	hypothetical protein	
<i>ydiV</i>	<i>b1707</i>	3.03	12.13	conserved hypothetical protein	
<i>yedW</i>	<i>b1969</i>	3.48	4.00	putative 2-component transcriptional regulator	
				hybrid sensory histidine kinase in two-component regulatory system, regulates	
<i>evgS</i>	<i>b2370</i>	2.64	3.73	multidrug resistance	(3)
<i>pphB</i>	<i>b2734</i>	2.64	2.14	protein phosphatase 2 , protein-tyrosine-phosphatase , phosphoprotein phosphatase	
<i>chpA</i>	<i>b2782</i>	2.64	2.64	putative growth inhibitor A, exhibits ribonuclease activity	
<i>barA</i>	<i>b2786</i>	2.30	2.14	hybrid sensory histidine kinase in two-component regulatory system with UvrY	
<i>b2856</i>	<i>b2856</i>	2.30	6.06	hypothetical protein	
<i>yjjQ</i>	<i>b4365</i>	2.46	4.59	putative regulator	
<i>creC</i>	<i>b4399</i>	3.48	4.00	catabolite repression sensor kinase for PhoB, alternative sensor for pho regulon	
Intracellular trafficking and secretion					
<i>ecfA</i>	<i>b2970</i>	3.03	6.50	putative general secretion pathway for protein export (GSP)	
<i>prlA</i>	<i>b3300</i>	-4.00	-3.25	preprotein translocase, membrane component, transport across inner membrane	
<i>yheE</i>	<i>b3324</i>	3.03	2.83	putative export protein C for general secretion pathway (GSP)	
<i>yheI</i>	<i>b3331</i>	2.83	12.13	putative export protein J for general secretion pathway (GSP)	
Defense mechanisms					
<i>emrK</i>	<i>b2368</i>	2.64	2.30	multidrug resistance protein K, putative membrane fusion protein	
<i>acrF</i>	<i>b3266</i>	4.29	8.57	integral transmembrane protein, acridine resistance, Drug Efflux Transport System	(8)
<i>dinF</i>	<i>b4044</i>	2.30	9.85	DNA-damage-inducible protein F, MATE Transporter	
<i>mcrC</i>	<i>b4345</i>	2.83	2.14	component of 5-methylcytosine-specific restriction enzyme McrBC	
Metabolism					
Energy production and conversion					
<i>fixA</i>	<i>b0041</i>	2.30	14.93	probable flavoprotein subunit required for anaerobic carnitine metabolism	
<i>aceE</i>	<i>b0114</i>	-2.14	-2.30	subunit of E1p component of pyruvate dehydrogenase complex	
<i>prpC</i>	<i>b0333</i>	5.28	3.03	methylcitrate synthase (citrate synthase 2)	
<i>ylbC</i>	<i>b0517</i>	2.64	4.59	ureidoglycolate dehydrogenase	
<i>dcuC</i>	<i>b0621</i>	3.03	3.25	dicarboxylate transport protein (DcuC family)	
<i>gltA</i>	<i>b0720</i>	-3.03	-3.03	citrate synthase monomer	(5)
<i>sdhC</i>	<i>b0721</i>	-4.29	-3.25	succinate dehydrogenase membrane protein	
<i>sdhD</i>	<i>b0722</i>	-4.00	-2.83	succinate dehydrogenase membrane protein	
<i>sdhA</i>	<i>b0723</i>	-4.29	-3.73	succinate dehydrogenase, catalytic and NAD, flavoprotein subunit	
				2-oxoglutarate decarboxylase, component of the 2-oxoglutarate dehydrogenase	
				complex, thiamin-binding	
<i>sucA</i>	<i>b0726</i>	-4.00	-3.73	2-oxoglutarate dehydrogenase (dihydrolipoyltranssuccinase E2 component)	
<i>sucB</i>	<i>b0727</i>	-5.66	-3.48	succinyl-CoA synthetase, beta subunit	(5)
<i>sucC</i>	<i>b0728</i>	-4.92	-2.64	putative cytochrome	
<i>yceJ</i>	<i>b1057</i>	2.30	2.83		

<i>icdA</i>	<i>b1136</i>	-2.14	-2.64	e14 prophage, isocitrate dehydrogenase, specific for NADP+	
<i>aldA</i>	<i>b1415</i>	-2.64	-3.73	putative succinate-semialdehyde dehydrogenase, aldehyde dehydrogenase	(6)
<i>rsxA</i>	<i>b1627</i>	2.83	10.56	integral membrane protein of SoxR-reducing complex, electron transport	
<i>rsxG</i>	<i>b1631</i>	3.48	2.30	member of SoxR-reducing complex, electron transport	
<i>ydhV</i>	<i>b1673</i>	2.14	3.48	putative oxidoreductase	
<i>astD</i>	<i>b1746</i>	-2.30	-2.46	succinylglutamic semialdehyde dehydrogenase	(3) (1)
<i>napA</i>	<i>b2206</i>	6.50	4.00	molybdoprotein, periplasmic nitrate reductase, large subunit, in complex with NapB	
<i>hyfD</i>	<i>b2484</i>	9.19	6.50	hydrogenase 4 membrane subunit	
<i>hyfG</i>	<i>b2487</i>	2.30	4.92	hydrogenase 4 subunit	
<i>ygeT</i>	<i>b2867</i>	3.03	4.59	putative xanthine dehydrogenase subunit, FAD-binding domain	
<i>ttdA</i>	<i>b3061</i>	7.46	5.66	L-tartrate dehydratase, alpha subunit	
<i>ebgA</i>	<i>b3076</i>	2.46	4.29	beta-D-galactosidase, ebg operon, alpha subunit, cryptic gene	
<i>tdcD</i>	<i>b3115</i>	2.83	19.70	propionate kinase, acetate kinase II, anaerobic	
<i>yiaI</i>	<i>b3573</i>	2.14	4.92	hypothetical protein	
<i>yiaK</i>	<i>b3575</i>	2.14	5.66	2,3-diketo-L-gulonate dehydrogenase, NADH-dependent	
<i>yibA</i>	<i>b3594</i>	2.83	4.00	putative lyase	(3)
<i>atpB</i>	<i>b3738</i>	-2.30	-2.14	membrane-bound ATP synthase, F0 sector, subunit a	
<i>fdoG</i>	<i>b3894</i>	-2.30	-2.83	formate dehydrogenase-O, major subunit	
<i>nrfB</i>	<i>b4071</i>	3.25	6.50	formate-dependent nitrite reductase, a penta-haeme cytochrome c	
<i>fumB</i>	<i>b4122</i>	9.19	6.96	fumarase B, anaerobic isozyme	
Carbohydrate transport and metabolism					
<i>prpB</i>	<i>b0331</i>	8.57	3.25	2-methylisocitrate lyase, putative carboxyphosphoenolpyruvate mutase	
<i>torT</i>	<i>b0994</i>	5.28	6.50	part of regulation of tor operon, periplasmic, unknown inducer	
<i>ycjT</i>	<i>b1316</i>	3.03	17.15	putative enzyme	
<i>ycjV</i>	<i>b1318</i>	2.14	6.06	putative ATP-binding component of a transport system	
<i>lsrA</i>	<i>b1513</i>	2.00	6.06	ATPase in AI-2 transport	(9)
<i>lsrD</i>	<i>b1515</i>	2.07	4.00	membrane channel proteins involved in transport of AI-2	(9)
<i>lsrK</i>	<i>b1511</i>	2.52	2.14	AI-2 kinase	(9)
<i>ydjI</i>	<i>b1773</i>	2.14	8.00	putative aldolase	
<i>manZ</i>	<i>b1819</i>	3.73	4.92	PTS enzyme IID, mannose-specific	
<i>gatZ</i>	<i>b2095</i>	-5.66	-2.64	tagatose-1,6-bisphosphate aldolase 2	
<i>gatY</i>	<i>b2096</i>	-2.83	-3.25	tagatose-1,6-bisphosphate aldolase 2, subunit with GatZ	
<i>dsdX</i>	<i>b2365</i>	2.00	9.19	permease	(6)
<i>emrY</i>	<i>b2367</i>	3.48	2.46	putative multidrug MFS transporter	
<i>iktB</i>	<i>b2465</i>	-3.73	-2.46	transketolase 2 isozyme	(4)
<i>srlE</i>	<i>b2703</i>	3.03	14.93	PTS family enzyme IIBC, glucitol, sorbitol-specific	
<i>yqcE</i>	<i>b2775</i>	2.14	7.46	putative transport protein, MFS transporter	
<i>fucP</i>	<i>b2801</i>	2.46	13.00	fructose permease, MFS transporter	
<i>galP</i>	<i>b2943</i>	2.30	7.46	galactose-proton symport of transport system, MFS transporter	
<i>agaW</i>	<i>b3134</i>	4.00	6.06	PTS family enzyme IIC component 2, N-acetylgalactosamine-specific	

<i>agaB</i>	<i>b3138</i>	2.30	6.50	PTS family enzyme IIB component 1, N-acetylgalactosamine-specific	
<i>agaC</i>	<i>b3139</i>	2.64	4.92	PTS family enzyme IIC component 1, N-acetylgalactosamine-specific	
<i>agaD</i>	<i>b3140</i>	9.19	5.66	PTS family enzyme IID, N-acetylglucosamine-specific	
<i>yhfC</i>	<i>b3364</i>	3.48	2.46	putative transport, MFS transporter	
<i>yhjX</i>	<i>b3547</i>	2.30	4.92	putative oxalate:formate antiporter (MFS family)	
<i>yiaM</i>	<i>b3577</i>	2.46	10.56	YiaMNO Binding Protein-dependent Secondary (TRAP) Transporter	
<i>sgbU</i>	<i>b3582</i>	2.46	4.59	3-epimerase, probable 3-hexulose-6-phosphate isomerase	
<i>sgbE</i>	<i>b3583</i>	2.30	3.25	L-ribulose-5-phosphate 4-epimerase	
<i>yidY</i>	<i>b3710</i>	4.00	19.70	drug, chloramphenicol transport protein (MFS family)	
<i>yieC</i>	<i>b3720</i>	3.48	2.83	carbohydrate-specific outer membrane porin putative receptor protein	
<i>yihN</i>	<i>b3874</i>	10.56	11.31	putative resistance protein, MFS transporter	
<i>malK</i>	<i>b4035</i>	9.19	5.66	ATP-binding component of transport system for maltose and maltodextrin	
<i>idnK</i>	<i>b4268</i>	2.14	2.14	D-gluconate kinase, thermosensitive	
<i>yjiJ</i>	<i>b4332</i>	2.30	2.64	putative sugar transport protein	
<i>gpmB</i>	<i>b4395</i>	2.64	6.50	phosphoglyceromutase 2	(3)
Amino acid transport and metabolism					
<i>yahI</i>	<i>b0323</i>	2.30	3.48	putative carbamate kinase	
<i>pheP</i>	<i>b0576</i>	3.25	2.83	phenylalanine transport protein (APC family)	
<i>potG</i>	<i>b0855</i>	2.30	5.66	ATP-binding component of putrescine ABC transport system	
<i>potI</i>	<i>b0857</i>	2.14	6.96	putrescine transport protein (ABC superfamily, membrane)	
<i>artJ</i>	<i>b0860</i>	4.00	5.28	arginine 3rd transport system periplasmic binding protein (ABC transporter)	
<i>ycaM</i>	<i>b0899</i>	2.64	7.46	putative amino-acid transport protein (APC family)	
<i>ansP</i>	<i>b1453</i>	2.30	2.30	L-asparagine permease	
<i>ydiN</i>	<i>b1691</i>	3.03	2.30	putative amino acid, amine transport protein, MFS transporter	
<i>astB</i>	<i>b1745</i>	-2.64	-2.30	succinylarginine dihydrolase	(1)
<i>ynjC</i>	<i>b1755</i>	2.30	3.48	putative transport protein (ABC superfamily, membrane)	
<i>ydjJ</i>	<i>b1774</i>	2.83	4.00	putative dehydrogenase, oxidoreductase, NAD(P)-binding	
<i>ydjL</i>	<i>b1776</i>	2.30	2.14	hypothetical zinc-type alcohol dehydrogenase-like protein	
<i>yeaU</i>	<i>b1800</i>	2.30	5.66	putative tartrate dehydrogenase	
<i>yeeF</i>	<i>b2014</i>	3.03	6.50	putative amino acid transport protein (APC family)	
<i>hisI</i>	<i>b2026</i>	2.14	6.50	phosphoribosyl-AMP cyclohydrolase	
<i>eutA</i>	<i>b2451</i>	10.56	3.48	CPPZ-55 prophage, chaperonin in ethanolamine utilization	
<i>gabT</i>	<i>b2662</i>	-3.73	-2.30	4-aminobutyrate aminotransferase activity	(3) (1)
<i>proW</i>	<i>b2678</i>	4.59	4.92	glycine, betaine, proline transport protein (ABC superfamily, membrane)	
<i>ygeY</i>	<i>b2872</i>	3.03	8.57	putative deacetylase	
<i>mtr</i>	<i>b3161</i>	-2.46	-6.06	tryptophan-specific transport protein	(8)
<i>nanT</i>	<i>b3224</i>	2.30	6.50	sialic acid transport protein (MFS family)	
<i>argR</i>	<i>b3237</i>	2.14	4.29	repressor of arg regulon, cer-mediated site specific recombination	
<i>yhdX</i>	<i>b3269</i>	3.03	2.64	putative amino acid transport protein (ABC superfamily, membrane)	
<i>yhfM</i>	<i>b3370</i>	8.57	5.28	putative amino acid, amine transport protein, APC transporter	

<i>tnaB</i>	<i>b3709</i>	2.46	2.46	low affinity tryptophan permease, TnaB tryptophan ArAAP transporter	(3)	(1)
<i>yjdE</i>	<i>b4115</i>	2.64	2.64	putative amino acid, amine transport protein, cryptic		
<i>Nucleotide transport and metabolism</i>						
<i>purF</i>	<i>b2312</i>	2.46	3.48	amidophosphoribosyltransferase (PRPP amidotransferase)	(5)	
<i>uraA</i>	<i>b2497</i>	6.06	6.06	uracil transport		
<i>ygfU</i>	<i>b2888</i>	2.14	2.14	putative permease		
<i>yicE</i>	<i>b3654</i>	2.64	3.25	putative purine, xanthine transport protein (NCS2 family)	(5)	
<i>Coenzyme transport and metabolism</i>						
<i>citG</i>	<i>b0613</i>	6.06	4.59	triphosphoribosyl-dephospho-CoA synthase		
<i>bioD</i>	<i>b0778</i>	2.14	3.48	dethiobiotin synthetase		
<i>moeB</i>	<i>b0826</i>	2.30	3.03	ATP-dependent adenylate transferase, molybdopterin biosynthesis		
<i>ygcM</i>	<i>b2765</i>	2.14	2.14	putative 6-pyruvoyl tetrahydrobiopterin synthase		
<i>btuB</i>	<i>b3966</i>	2.46	2.83	outer membrane porin: vitamin B12, cobalamin transport		(6)
<i>thiH</i>	<i>b3990</i>	3.03	6.96	thiamin (thiazole moiety) biosynthesis protein	(3)	
<i>Lipid transport and metabolism</i>						
<i>htrL</i>	<i>b3618</i>	9.19	8.00	involved in lipopolysaccharide biosynthesis		
<i>yihG</i>	<i>b3862</i>	2.30	2.83	putative endonuclease		
<i>acs</i>	<i>b4069</i>	-3.03	-2.64	putative hydroxycinnamate-CoA ligase, acetyl-CoA synthetase		
<i>Secondary metabolites biosynthesis, transport and catabolism</i>						
<i>dhaR</i>	<i>b1201</i>	2.46	4.59	probable transcription activator for the dha operon, putative 2-component regulator		
<i>kduD</i>	<i>b2842</i>	2.83	5.66	2-deoxy-D-gluconate 3-dehydrogenase	(5)	
<i>ygfF</i>	<i>b2902</i>	3.73	6.06	putative oxidoreductase		
<i>yjgI</i>	<i>b4249</i>	8.57	3.73	putative oxidoreductase		
Poorly characterized						
<i>Prophage genes and phage related functions</i>						
<i>yi82_1</i>	<i>b0017</i>	3.03	2.64	IS186 and IS421 hypothetical protein		
<i>ykfI</i>	<i>b0245</i>	2.14	4.59	toxin of the YkfI-YafW toxin-antitoxin pair	(3)	
<i>yafX</i>	<i>b0248</i>	11.31	7.46	hypothetical protein, CP4-6 prophage		
<i>b0538</i>	<i>b0538</i>	2.46	2.30	DLP12 prophage, putative sensory transduction regulator		
<i>ybcQ</i>	<i>b0551</i>	2.64	5.28	DLP12 prophage, putative antitermination protein Q		
<i>ybcW</i>	<i>b0559</i>	2.14	6.06	DLP12 prophage, hypothetical protein		
<i>ybcY</i>	<i>b0562</i>	3.25	11.31	DLP12 prophage, homolog of phage 21 head protein, putative methylase		
<i>ybfL</i>	<i>b0705</i>	2.14	2.64	putative receptor protein		
<i>ymfJ</i>	<i>b1144</i>	2.30	2.30	e14 prophage, hypothetical protein		
<i>ydaD</i>	<i>b1352</i>	2.14	2.83	Kil protein (killing function) of lambdoid prophage Rac	(4)	
<i>sieB</i>	<i>b1353</i>	2.46	4.00	Rac prophage, phage superinfection exclusion protein		
<i>b1354</i>	<i>b1354</i>	2.46	2.46	Rac prophage, hypothetical protein		
<i>ydaR</i>	<i>b1356</i>	2.30	2.14	Rac prophage repressor, hypothetical protein	(4)	
<i>ydaY</i>	<i>b1366</i>	2.30	10.56	Rac prophage, hypothetical protein		
<i>ynaE</i>	<i>b1375</i>	4.59	7.46	Rac prophage, hypothetical protein		

<i>ynfN</i>	<i>b1551</i>	2.14	2.30	Qin prophage, hypothetical protein	
<i>ydfP</i>	<i>b1553</i>	2.14	4.59	Qin prophage, hypothetical protein	(3)
<i>rem</i>	<i>b1561</i>	2.83	2.64	Qin prophage, hypothetical protein	
<i>b1567</i>	<i>b1567</i>	2.30	9.19	Qin prophage, hypothetical protein	(3)
<i>dicB</i>	<i>b1575</i>	2.46	2.30	Qin prophage, inhibitor of cell division	(3)
<i>ydfD</i>	<i>b1576</i>	2.46	4.92	Qin prophage, hypothetical protein	
<i>yeeT</i>	<i>b2003</i>	2.46	2.83	CP4-44 prophage, hypothetical protein	
<i>yeeU</i>	<i>b2004</i>	2.64	12.13	CP4-44 prophage, putative structural protein, antitoxin	
<i>wcaD</i>	<i>b2056</i>	2.64	2.46	putative colanic acid polymerase	
<i>yfdI</i>	<i>b2352</i>	2.14	6.50	CPS-53 (KpLE1) prophage, putative ligase	
<i>yfdL</i>	<i>b2355</i>	2.64	3.25	CPS-53 (KpLE1) prophage, putative RNA polymerase beta	
<i>yfdN</i>	<i>b2357</i>	3.48	9.85	CPS-53 (KpLE1) prophage, putative transcriptional regulator	
<i>yfdQ</i>	<i>b2360</i>	2.14	2.46	CPS-53 (KpLE1) prophage, hypothetical protein	
<i>yffH</i>	<i>b2623</i>	2.14	2.14	CP4-57 prophage, putative histone	
<i>yffJ</i>	<i>b2626</i>	3.03	3.25	CP4-57 prophage, hypothetical protein	
<i>yffT</i>	<i>b2637</i>	3.03	5.28	CP4-57 prophage, hypothetical protein	
<i>b2640</i>	<i>b2640</i>	2.14	12.13	CP4-57 prophage, hypothetical protein	
<i>yffW</i>	<i>b2642</i>	3.03	2.14	CP4-57 prophage, hypothetical protein	
<i>yffZ</i>	<i>b2645</i>	2.83	3.03	CP4-57 prophage, hypothetical protein	
<i>yjgY</i>	<i>b4276</i>	2.14	3.73	KpLE2 phage-like element	
<i>yi91b</i>	<i>b4283</i>	2.14	3.73	KpLE2 phage-like element, IS911 protein	
<i>yjiP</i>	<i>b4338</i>	17.15	13.00	hypothetical protein	
General function prediction only					
<i>yahK</i>	<i>b0325</i>	-3.25	-2.64	putative dehydrogenase, oxidoreductase, NAD(P)-binding	
<i>prpD</i>	<i>b0334</i>	6.96	3.48	2-methyl citrate dehydratase	
<i>yaiX</i>	<i>b0359</i>	3.25	2.30	putative acyl transferase	
<i>ylaD</i>	<i>b0459</i>	11.31	22.63	maltose O-acetyltransferase	
<i>ybbM</i>	<i>b0491</i>	2.30	2.14	putative metal resistance protein	
<i>ybfP</i>	<i>b0689</i>	4.00	13.93	putative pectinase	
<i>ybhM</i>	<i>b0787</i>	4.29	6.06	hypothetical protein	
<i>ycaK</i>	<i>b0901</i>	2.64	14.93	putative NAD(P)H dehydrogenase	
<i>ycgY</i>	<i>b1196</i>	2.30	2.46	putative enzyme	
<i>ycjM</i>	<i>b1309</i>	2.14	3.48	putative polysaccharide hydrolase	
<i>pqqL</i>	<i>b1494</i>	3.03	18.38	putative zinc protease	(3)
<i>yddA</i>	<i>b1496</i>	2.30	2.83	putative ABC transport system ATP-binding protein	
<i>ydeM</i>	<i>b1497</i>	2.14	5.66	putative enzyme	
<i>ydeQ</i>	<i>b1502</i>	2.46	13.93	putative adhesin, similar to FimH protein	(3)
<i>ydfQ</i>	<i>b1554</i>	2.14	2.14	Qin prophage, putative lysozyme	
<i>ydiO</i>	<i>b1695</i>	3.03	6.50	putative acyl-CoA dehydrogenase	
<i>ydjH</i>	<i>b1772</i>	2.64	12.13	putative kinase	

<i>yodA</i>	<i>b1973</i>	2.64	3.25	cadmium-induced metal binding protein
<i>yeeL_2</i>	<i>b1979</i>	2.64	2.83	putative transport protein
<i>yohM</i>	<i>b2106</i>	3.73	10.56	hypothetical protein
<i>yejE</i>	<i>b2179</i>	3.73	6.96	putative oligopeptide transport protein
<i>yejF</i>	<i>b2180</i>	2.83	2.30	putative ATP-binding component of a transport system
<i>yfaV</i>	<i>b2246</i>	3.48	12.13	putative transport protein
<i>yfbJ</i>	<i>b2258</i>	2.14	8.57	putative transport, receptor protein
<i>yfbL</i>	<i>b2271</i>	2.30	3.48	putative aminopeptidase
<i>perM</i>	<i>b2493</i>	2.64	6.96	putative permease
<i>yfgH</i>	<i>b2505</i>	2.14	8.57	putative outer membrane lipoprotein
<i>ygbD</i>	<i>b2711</i>	2.64	7.46	NADH:flavorubredoxin (FIRd) oxidoreductase
<i>ygcW</i>	<i>b2774</i>	2.14	2.46	putative deoxygluconate dehydrogenase, oxidoreductase
<i>hybF</i>	<i>b2991</i>	3.73	5.28	protein involved with the maturation of hydrogenases 1 and 2
<i>ygiU</i>	<i>b3022</i>	5.66	3.25	putative cyanide hydratase
<i>yqiJ</i>	<i>b3050</i>	3.03	2.83	putative oxidoreductase
<i>ygiI</i>	<i>b3078</i>	2.46	11.31	putative oxidoreductase, APC transporter
<i>yhbM</i>	<i>b3163</i>	-2.30	-2.83	lipoprotein believed to be involved in cell division
<i>yheF</i>	<i>b3325</i>	2.83	3.03	putative export protein D for general secretion pathway (GSP)
<i>pshM</i>	<i>b3334</i>	2.30	3.03	putative export protein M for general secretion pathway (GSP)
<i>yrfF</i>	<i>b3398</i>	2.30	2.30	putative dehydrogenase
<i>yidK</i>	<i>b3679</i>	2.30	4.29	putative cotransporter
<i>yihP</i>	<i>b3877</i>	6.06	6.06	putative permease, GPH transporter
<i>yihR</i>	<i>b3879</i>	9.85	6.50	putative aldose-1-epimerase
<i>arp</i>	<i>b4017</i>	3.03	2.30	regulator of acetyl CoA synthetase, ankyrin-like regulatory protein
<i>dcuB</i>	<i>b4123</i>	6.50	3.25	anaerobic C4-dicarboxylate transport protein (Dcu family)
<i>yjgN</i>	<i>b4257</i>	2.83	2.46	putative membrane protein possible involved in transport
<i>ygfQ</i>	<i>b4464</i>	2.30	3.25	putative membrane protein
Function unknown				
<i>yadS</i>	<i>b0157</i>	3.73	2.64	putative membrane protein
<i>yafQ</i>	<i>b0225</i>	2.83	4.00	conserved hypothetical protein
<i>yagZ</i>	<i>b0293</i>	2.83	2.83	conserved hypothetical protein
<i>b0309</i>	<i>b0309</i>	3.48	4.59	hypothetical protein
<i>yahC</i>	<i>b0317</i>	2.64	8.00	putative membrane protein
<i>yaiS</i>	<i>b0364</i>	5.66	6.06	conserved hypothetical protein
<i>b0370</i>	<i>b0370</i>	3.03	19.70	hypothetical protein
<i>ylaC</i>	<i>b0458</i>	2.64	4.00	putative membrane protein
<i>ybaJ</i>	<i>b0461</i>	5.66	4.29	conserved hypothetical protein
<i>ybbC</i>	<i>b0498</i>	2.46	4.29	hypothetical protein
<i>ylbE</i>	<i>b0519</i>	5.66	4.59	conserved hypothetical protein
<i>crcA</i>	<i>b0622</i>	3.48	4.59	hypothetical protein, PagP monomer

(3)

(6)

<i>ybfG</i>	<i>b0690</i>	5.28	5.66	conserved hypothetical protein	
<i>ybfD</i>	<i>b0706</i>	2.14	4.00	conserved hypothetical protein	
<i>b0725</i>	<i>b0725</i>	-3.73	-2.64	hypothetical protein	
<i>yliH</i>	<i>b0836</i>	-2.14	-4.59	putative receptor, induced in stationary phase	(4)
<i>ycdF</i>	<i>b1005</i>	-2.30	-5.28	hypothetical protein	
<i>yceP</i>	<i>b1060</i>	-73.52	-78.79	conserved hypothetical protein	
<i>ycfR</i>	<i>b1112</i>	11.31	3.73	conserved hypothetical protein	
<i>ycfT</i>	<i>b1115</i>	3.25	16.00	putative transport protein	
<i>ymfA</i>	<i>b1122</i>	2.83	5.28	conserved hypothetical protein	
<i>yehP</i>	<i>b1220</i>	2.83	6.50	conserved protein, invasin-like, putative factor	
<i>ynbE</i>	<i>b1382</i>	3.03	2.46	hypothetical protein	
<i>b1437</i>	<i>b1437</i>	2.64	9.85	hypothetical protein	
<i>ydcX</i>	<i>b1445</i>	2.64	2.46	hypothetical protein	(3)
<i>ydcZ</i>	<i>b1447</i>	2.64	3.25	putative transport protein	
<i>yddJ</i>	<i>b1470</i>	2.46	3.03	hypothetical protein	
<i>yddK</i>	<i>b1471</i>	3.03	4.00	putative glycoprotein	
<i>b1500</i>	<i>b1500</i>	2.83	2.14	hypothetical protein, gene is in an operon associated with acid resistance	
<i>yneK</i>	<i>b1527</i>	2.83	4.00	conserved hypothetical protein	
<i>ydhl</i>	<i>b1643</i>	2.30	3.25	hypothetical protein	
<i>arpB_1</i>	<i>b1720</i>	2.30	8.57	hypothetical protein	
<i>arpB_2</i>	<i>b1721</i>	2.46	2.64	hypothetical protein	
<i>ydjC</i>	<i>b1733</i>	2.30	3.48	hypothetical protein, encoded by an operon required for growth on N,N	
<i>ynjI</i>	<i>b1762</i>	3.73	3.03	conserved hypothetical protein	
<i>b1788</i>	<i>b1788</i>	2.30	9.85	hypothetical protein	
<i>yoaG</i>	<i>b1796</i>	3.03	9.85	hypothetical protein	
<i>yobD</i>	<i>b1820</i>	2.30	2.14	conserved hypothetical protein	
<i>mgrB</i>	<i>b1826</i>	2.30	12.13	hypothetical protein, product of a gene induced by low magnesium	
<i>yebV</i>	<i>b1836</i>	-4.59	-2.30	hypothetical protein	
<i>yecT</i>	<i>b1877</i>	3.73	13.00	hypothetical protein	
<i>yecR</i>	<i>b1904</i>	2.30	2.64	conserved hypothetical protein	
<i>yedN</i>	<i>b1934</i>	3.73	6.50	conserved hypothetical protein	
<i>yedM</i>	<i>b1935</i>	2.14	3.48	hypothetical protein	
<i>yeeN</i>	<i>b1983</i>	2.83	5.28	conserved hypothetical protein	
<i>sanA</i>	<i>b2144</i>	2.30	2.14	vancomycin sensitivity	
<i>yejG</i>	<i>b2181</i>	9.85	4.00	conserved hypothetical protein	
<i>yfaA</i>	<i>b2230</i>	2.64	2.64	conserved hypothetical protein	
<i>ais</i>	<i>b2252</i>	2.46	3.25	protein induced by aluminum	
<i>yfbM</i>	<i>b2272</i>	2.30	12.13	conserved hypothetical protein	
<i>yfbO</i>	<i>b2274</i>	2.30	5.28	hypothetical protein	
<i>yfdF</i>	<i>b2345</i>	2.46	3.03	hypothetical protein	

<i>yfeS</i>	<i>b2420</i>	2.30	3.03	conserved hypothetical protein	
<i>yfgF</i>	<i>b2503</i>	2.14	4.29	putative cytochrome C-type biogenesis protein, oxidative protein	
<i>yfiP</i>	<i>b2583</i>	2.14	2.14	conserved hypothetical protein	
<i>b2596</i>	<i>b2596</i>	2.83	2.14	hypothetical protein	
<i>b2651</i>	<i>b2651</i>	2.46	4.92	hypothetical protein	
<i>ygaU</i>	<i>b2665</i>	-2.14	-2.14	conserved hypothetical protein	(4)
<i>ygcJ</i>	<i>b2758</i>	2.14	9.85	conserved hypothetical protein	
<i>ygeF</i>	<i>b2850</i>	2.14	4.29	conserved hypothetical protein	(3)
<i>ygeO</i>	<i>b2859</i>	2.14	2.64	conserved hypothetical protein	(3)
<i>yqgC</i>	<i>b2940</i>	2.30	2.30	hypothetical protein	
<i>yqgD</i>	<i>b2941</i>	2.83	18.38	hypothetical protein	(6)
<i>yghG</i>	<i>b2971</i>	14.93	11.31	hypothetical protein	
<i>yhaI</i>	<i>b3104</i>	2.30	3.25	putative cytochrome	
<i>yhaB</i>	<i>b3120</i>	3.03	2.46	conserved hypothetical protein	
<i>yhaC</i>	<i>b3121</i>	2.46	6.50	conserved hypothetical protein	
<i>yhcR</i>	<i>b3242</i>	21.11	12.13	hypothetical protein	
<i>yhfL</i>	<i>b3369</i>	2.14	3.73	hypothetical protein	
<i>yrhA</i>	<i>b3443</i>	2.46	3.48	conserved hypothetical protein	
<i>yhhH</i>	<i>b3483</i>	4.92	5.66	hypothetical protein	
<i>yhhI</i>	<i>b3484</i>	5.66	4.29	conserved protein, similar to H-repeat-associated proteins	
<i>yhiS</i>	<i>b3504</i>	2.64	2.46	conserved hypothetical protein	
<i>viaH</i>	<i>b3561</i>	2.46	9.19	putative membrane protein	
<i>viaA</i>	<i>b3562</i>	3.25	4.00	hypothetical protein	
<i>viaB</i>	<i>b3563</i>	4.29	29.86	inner membrane protein	
<i>yibJ</i>	<i>b3595</i>	2.30	19.70	hypothetical protein	
<i>yibG</i>	<i>b3596</i>	2.83	8.00	conserved hypothetical protein	
<i>yicG</i>	<i>b3646</i>	2.83	4.29	putative membrane protein	
<i>yieI</i>	<i>b3716</i>	2.30	3.48	putative membrane protein	
<i>b3808</i>	<i>b3808</i>	2.64	9.19	hypothetical protein	
<i>yigF</i>	<i>b3817</i>	2.30	10.56	conserved hypothetical protein	
<i>yigG</i>	<i>b3818</i>	3.25	6.06	inner membrane protein	
<i>yiiL</i>	<i>b3901</i>	2.30	2.30	conserved hypothetical protein	
<i>yjaA</i>	<i>b4011</i>	2.83	3.73	conserved hypothetical protein	
<i>yjbL</i>	<i>b4047</i>	5.66	55.72	hypothetical protein	
<i>yjcF</i>	<i>b4066</i>	3.25	8.00	conserved hypothetical protein	
<i>yjdK</i>	<i>b4128</i>	2.14	4.29	hypothetical protein	
<i>yjeJ</i>	<i>b4145</i>	2.64	2.64	conserved hypothetical protein	
<i>yjfM</i>	<i>b4185</i>	3.48	9.85	conserved hypothetical protein	
<i>yjfZ</i>	<i>b4204</i>	2.46	9.19	hypothetical protein	
<i>yjgG</i>	<i>b4247</i>	2.46	8.57	hypothetical protein	

<i>yjgL</i>	<i>b4253</i>	2.14	5.28	conserved hypothetical protein
<i>yjhA</i>	<i>b4311</i>	2.30	9.19	conserved hypothetical protein
<i>ygaR</i>	<i>b4462</i>	2.30	34.30	hypothetical protein
Not classified				
<i>citE</i>	<i>b0616</i>	3.25	3.25	citrate lyase beta chain (acyl lyase subunit)
<i>ycfZ</i>	<i>b1121</i>	3.03	21.11	homolog of virulence factor
<i>yiaN</i>	<i>b3578</i>	2.46	18.38	YiaMNO Binding Protein-dependent Secondary (TRAP) Transporter

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