

SUPPLEMENTARY METHODS

Strains, plasmids and primers

The strains, plasmids and primers used in this study are listed in Supplementary Table S1 (1, 2, 5), S2 (10), and S3 (3, 9), respectively.

Construction of deletion mutants via replacement with an antibiotic cassette

To construct strains in which a gene was deleted, an antibiotic resistance cassette flanked by the regions upstream and downstream of the gene sequence was amplified with the gene-Fr-F/gene-Fr-R and gene-Ba-F/gene-Ba-R primer sets, respectively (Table S3). The resulting three fragments were ligated using recombinant PCR, and integrated into the *B. subtilis* strain 168 BFA genome via double crossover recombination with selection for antibiotic resistance. To construct a deletion mutant of NCIB3610, the strain was transformed with chromosomal DNA from newly generated strain 168 BFA deletion mutants. To obtain double-deletion mutant strains, chromosomal DNA of one deletion mutant was transferred into the other deletion mutant strain.

Deletion of *sinI* using a marker-free gene disruption method

For deletion of the *sinI* gene, we performed a method of marker-free gene disruption comprising three steps (7).

In the first step, *sinI* was replaced with an erythromycin resistance cassette amplified from a pMUTin2HC plasmid using the primer set rRCP-ermF/rRCP-ermR, as described above.

In the second step, a cassette in which *mazF* (a toxin gene encoding endoribonuclease that cleaves free mRNAs) under control of IPTG-inducible *spac* promoter, fused with the flanking sequences of the *sinI* region, was inserted between the front and internal sequence of the erythromycin resistance gene to remove the entire marker region in single-crossover recombination via counter-selection. Upstream (fragment A) and downstream (fragment B) sequences of the *sinI* region were amplified from *B. subtilis*

168 BFA genomic DNA using the primer sets, sinI-Fr-F/sinI-Fr-r and sinI-Ba-f/sinI-Ba-r, respectively. The *mazF* cassette was amplified using primers pAPNC-F and chpA-R from genomic DNA of *B. subtilis* TMO310 (168, *aprE::spec^R*, *lacI*, *Pspac-mazF*). An internal sequence in the erythromycin resistance region (fragment C) was amplified using primers emD-F₂ and Erm-R. PCR products were fused using recombinant PCR in the order A-B-*mazF*-cassette-C, using primers sinI-Fr-F and Erm-R, and integrated into the *sinI* deletion strain generated in the first step through homologous recombination between fragment A and C loci. The resulting recombinants were selected for spectinomycin resistance in the absence of IPTG.

In the last step, the inserted *mazF* cassette was removed to obtain marker-free *sinI* disruption. The primary transformant achieved in the second step was cultivated in the presence of IPTG (i.e., *mazF* toxin-inducing conditions), and clones in which the *mazF* cassette had been removed by intramolecular homologous recombination at region B were selected.

Construction of the SinR2HC strain

To construct a *B. subtilis* strain expressing SinR C-terminally tagged with twelve histidines and a chitin-binding domain (SinR-2HC), the *sinR* gene without the stop codon was amplified from *B. subtilis* 168 BFA genomic DNA using primers sinI-Ba-f and sinR-6his-r. The coding sequence of the 2HC tag and a chloramphenicol resistance gene were amplified from plasmids pMUTin2HC and pDLT3 using the DC-2HC-F/DC-2HC-R and rPCR-CmF2/rPCR-CmR2 primer sets, respectively. The downstream region of *sinR* was amplified from *B. subtilis* 168 BFA genomic DNA with the sinR-Cm-Ba-f₂ and sinR-Cm-Ba-r primers. Subsequently, the four fragments were ligated with recombinant PCR using primers sinI-Ba-f and sinR-Cm-Ba-r, and employed to transform *B. subtilis* 168 BFA cells, followed by double-crossover recombination with selection for chloramphenicol resistance to create the SinR2HC strain.

Construction of pO-veg, pO-veg12His and pO-MCS plasmids

Expression plasmids for Veg (pO-veg), Veg-12His (pO-veg12His) and a negative control plasmid (pO-MCS) were created using the Gateway cloning system (Invitrogen), as described previously (4). To construct pO-veg, the *veg* gene was amplified from *B. subtilis* 168 BFA chromosomal DNA using primers attB1-SD-veg-F, in which the SD sequence of the *hbs* gene and half of the *attB1* sequence are attached at the 5' end, and attB2-veg-R, in which half of *attB2* sequence is attached at the 5' end. To construct pO-veg12His, a *veg* gene translationally fused with a coding sequence of twelve histidines (*veg-12xhis*) was amplified from chromosomal DNA of strain LY001 (168; *veg::pMUTinHisΔveg*) using the primers attB1-SD-veg-F and pM12HisR-attB2. To construct pO-MCS, the multi-cloning site was amplified from pUC19 using primers pUCMCS-F-adapter and pUCMCS-R-adapter. Next, entire recombination sites for BP clonase, *attB1* and *attB2*, were attached to the first PCR products in the second PCR using the adapter primers, Adapter-attB1 and Adapter-attB2. Fragments were cloned into an entry vector, pDONR201 (Invitrogen), with BP clonase to create entry clones, followed by transfer to a pOGW destination vector (4), according to Gateway technology instructions. For transformation of *B. subtilis* strains, the resulting plasmids were amplified in *E. coli recA*⁺ strain, C600.

Protein stability of Veg

Cells expressing Veg from the P_{spac} promoter on the pO-veg plasmid were grown in LB in the presence of 1 mM IPTG at 37°C with shaking. When cell cultures attained OD₆₀₀ of 0.4-0.5, protein synthesis was inhibited by the addition of chloramphenicol to a final concentration of 200 µg ml⁻¹. Samples (10 ml) taken at the indicated times were harvested by centrifugation at 6000 g for 3 min, washed once with 1 ml chilled killing buffer, and stored at -80°C. Cells were resuspended in lysis buffer (25 mM Tris-HCl [pH 8.0], 10 mM EDTA, 50 mM glucose, 1 mM DTT, 1x protease inhibitor cocktail [Roche]), and incubated for 10 min at 37°C. After mixing with SDS sample buffer, followed by centrifugation to remove cell debris, proteins in the supernatant equivalent to 0.02 OD₆₀₀ units were separated on 10-20% (w/v) Tris-tricine polyacrylamide gel and transferred to Immobilon-P^{SQ} membranes (Millipore) for 1 h at 10 V in a semi-dry

transfer apparatus (Bio-Rad). Transferred proteins were detected using anti-Veg at 1/20000 dilution as the primary antibody, followed by secondary anti-rabbit IgG antibody (Bio-Rad) at 1/8000 dilution conjugated to horseradish peroxidase. Proteins were detected, as described above. The signal intensities of protein bands on X-ray films were quantified using the NIH-Imagine program (11). To estimate relative abundance, standard curves were determined by loading two-fold serial dilutions of the sample (t=0) on each gel, and the levels of other samples estimated by comparing protein band intensities with the linear range of the standard curve.

Transcriptome analysis

Isolation of total RNA, synthesis of complementary DNA, terminal labeling and hybridization with the tiling array were performed according to the Affymetrix instruction manual (8). Biologically independent experiments were performed in duplicate (Table S6). Transcriptome information on Spo0A (6), AbrB (2) and SigD (12) is additionally included (Table S4).

REFERENCES

1. **Chu, F., D. B. Kearns, S. S. Branda, R. Kolter, and R. Losick.** 2006. Targets of the master regulator of biofilm formation in *Bacillus subtilis*. *Mol. Microbiol.* **59**:1216-28.
2. **Chumsakul, O., H. Takahashi, T. Oshima, T. Hishimoto, S. Kanaya, N. Ogasawara, and S. Ishikawa.** 2011. Genome-wide binding profiles of the *Bacillus subtilis* transition state regulator AbrB and its homolog Abh reveals their interactive role in transcriptional regulation. *Nucleic Acids Res.* **39**:414-28.
3. **Guerout-Fleury, A. M., K. Shazand, N. Frandsen, and P. Stragier.** 1995. Antibiotic-resistance cassettes for *Bacillus subtilis*. *Gene* **167**:335-6.
4. **Ishikawa, S., Y. Kawai, K. Hiramatsu, M. Kuwano, and N. Ogasawara.** 2006. A new FtsZ-interacting protein, YlmF, complements the activity of FtsA during progression of cell division in *Bacillus subtilis*. *Mol. Microbiol.* **60**:1364-80.

5. **Kearns, D. B., and R. Losick.** 2003. Swarming motility in undomesticated *Bacillus subtilis*. *Mol. Microbiol.* **49**:581-90.
6. **Molle, V., M. Fujita, S. T. Jensen, P. Eichenberger, J. E. Gonzalez-Pastor, J. S. Liu, and R. Losick.** 2003. The Spo0A regulon of *Bacillus subtilis*. *Mol. Microbiol.* **50**:1683-701.
7. **Morimoto, T., K. Ara, K. Ozaki, and N. Ogasawara.** 2009. A new simple method to introduce marker-free deletions in the *Bacillus subtilis* genome. *Genes Genet Syst.* **84**:315-8.
8. **Morimoto, T., R. Kadoya, K. Endo, M. Tohata, K. Sawada, S. Liu, T. Ozawa, T. Kodama, H. Kakeshita, Y. Kageyama, K. Manabe, S. Kanaya, K. Ara, K. Ozaki, and N. Ogasawara.** 2008. Enhanced recombinant protein productivity by genome reduction in *Bacillus subtilis*. *DNA Res.* **15**:73-81.
9. **Morimoto, T., P. C. Loh, T. Hirai, K. Asai, K. Kobayashi, S. Moriya, and N. Ogasawara.** 2002. Six GTP-binding proteins of the Era/Obg family are essential for cell growth in *Bacillus subtilis*. *Microbiology* **148**:3539-52.
10. **Okumura, H., M. Yoshimura, M. Ueki, T. Oshima, N. Ogasawara, and S. Ishikawa.** 2012. Regulation of chromosomal replication initiation by *oriC*-proximal DnaA-box clusters in *Bacillus subtilis*. *Nucleic Acids Res.* **40**:220-34.
11. **Rasband, W., and D. Bright.** 1995. NIH Image: a public domain image processing program for the Macintosh. *Microbeam Anal.* **4**:137-149.
12. **Serizawa, M., H. Yamamoto, H. Yamaguchi, Y. Fujita, K. Kobayashi, N. Ogasawara, and J. Sekiguchi.** 2004. Systematic analysis of SigD-regulated genes in *Bacillus subtilis* by DNA microarray and Northern blotting analyses. *Gene* **329**:125-36.

SUPPLEMENTARY FIGURE LEGENDS

Fig. S1. Stability of Veg protein and confirmation of the overproduction in different growth media.

(A) Cells of LY016 (168 BFA strain harboring pO-veg) were grown to the mid-logarithmic phase in the presence of 1 mM IPTG in LB at 37°C and treated with chloramphenicol to block protein synthesis. Veg proteins remaining in the cells at the indicated times were detected by Western blotting with the anti-Veg antibody. The Veg protein level at each time-point was measured, as described in Supplementary Methods, and plotted on a chart. (B) pO-veg (LY016) strain was grown to the mid-logarithmic phase in LB, SMM and MSgg in the presence of 1 mM IPTG at 37°C, and Veg in cells equivalents to 0.02 OD₆₀₀ units was detected by Western blotting with anti-Veg antibody. The signal intensities of Veg bands on X-ray films were quantified using the NIH-Imagine program and the signal intensities relative to that of cells cultivated in LB are shown below the bands.

Fig. S2. Comparison of the architecture of pellicles formed by mutants of regulators for biofilm formation.

Pellicles of strains with mutation(s), indicated at the upper side and the left side of each picture, were formed by cultivation in liquid MSgg medium for 72 h at 30°C. Strains with additional Δveg mutation, introduction of pO-MCS (as a negative control for pO-veg) and pO-veg were additionally examined. Strains harboring plasmid were cultured in the presence of 1 mM IPTG. The scale bar is 0.5 cm.

Fig. S3. Expression of P_{eps} -lacZ and P_{tapA} -lacZ in WT, $\Delta abrB$ and $\Delta sinR$ strains after 24 h cultivation

Expression of P_{eps} -lacZ and P_{tapA} -lacZ was compared on solid MSgg medium containing X-Gal and 1 mM IPTG after cultivation for 24 h at 30°C. The scale bar is 0.2 cm.

Fig. S4. Effects of SinR2HC on the architecture of colonies. The architecture of colonies formed by WT (168 BFA), SinR2HC (LY083) and $\Delta sinR$ (LY012) strains grown on MSgg plates for 72 h at 30°C. The scale bar is 0.5 cm.

Fig. S1

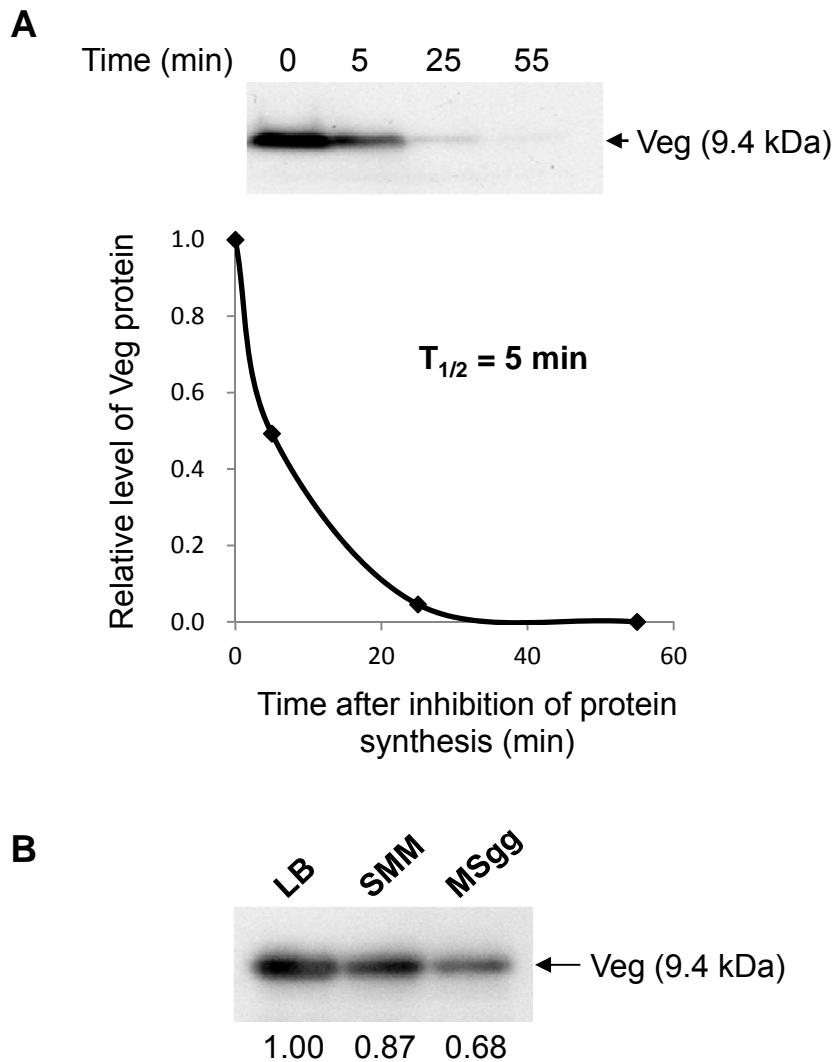


Fig. S1. Stability of Veg protein and confirmation of the overproduction in different growth media

(A) Cells of LY016 (168 BFA harboring pO-veg) were grown to the mid-logarithmic phase in the presence of 1 mM IPTG in LB at 37°C and treated with chloramphenicol to block protein synthesis. Veg proteins remaining in the cells at the indicated times were detected by Western blotting with the anti-Veg antibody. The Veg protein level at each time-point was measured, as described in Supplementary Methods, and plotted on a chart. (B) pO-veg (LY016) strain was grown to the mid-logarithmic phase in LB, SMM and MSgg in the presence of 1mM IPTG at 37°C, and Veg in cells equivalents to 0.02 OD₆₀₀ units was detected by Western blotting with anti-Veg antibody. The signal intensities of Veg bands on X-ray films were quantified using the NIH-Imagine program and the signal intensities relative to that of cells cultivated in LB are shown below the bands.

Fig. S2

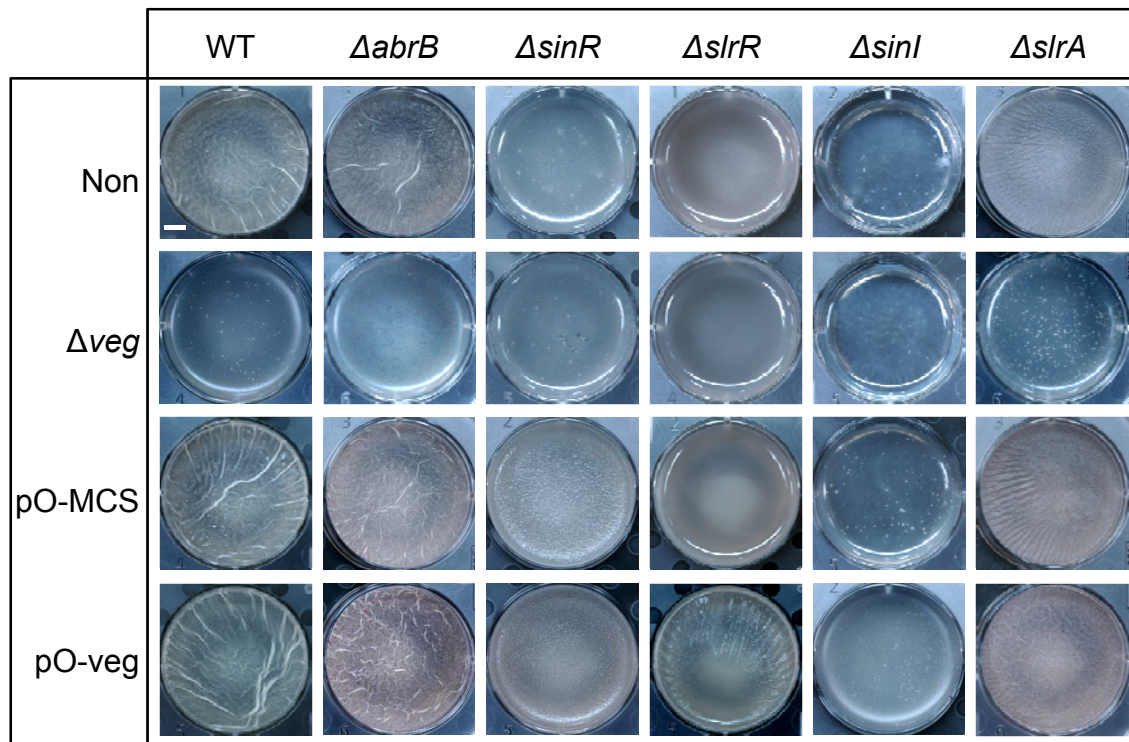


Fig. S2. Comparison of the architecture of pellicles formed by mutants of regulators for biofilm formation

Pellicles of strains with mutation(s), indicated at the upper side and the left side of each picture, were formed by cultivation in liquid MSgg medium for 72 h at 30°C. Strains with additional Δveg mutation, introduction of pO-MCS (as a negative control for pO-veg) and pO-veg were additionally examined. Strains harboring plasmid were cultured in the presence of 1 mM IPTG. The scale bar is 0.5 cm.

Fig. S3

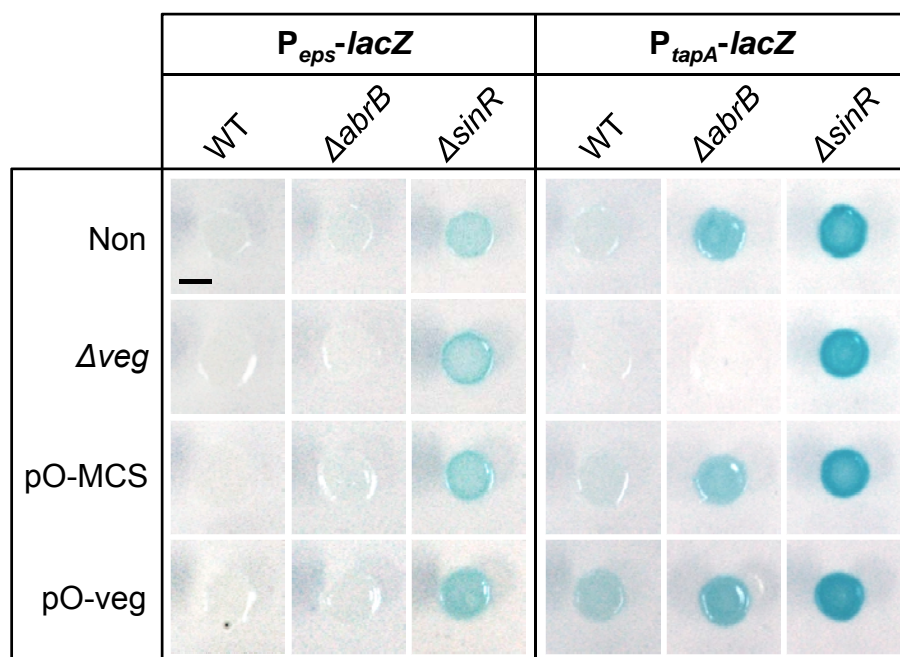


Fig. S3. Expression of P_{eps} -lacZ and P_{tapA} -lacZ in WT, \DeltaabrB and $\Delta sinR$ strains after 24 h cultivation

Expression of P_{eps} -lacZ and P_{tapA} -lacZ was compared on solid MSgg medium containing X-Gal and 1 mM IPTG after cultivation for 24 h at 30°C. The scale bar is 0.2 cm.

Fig. S4

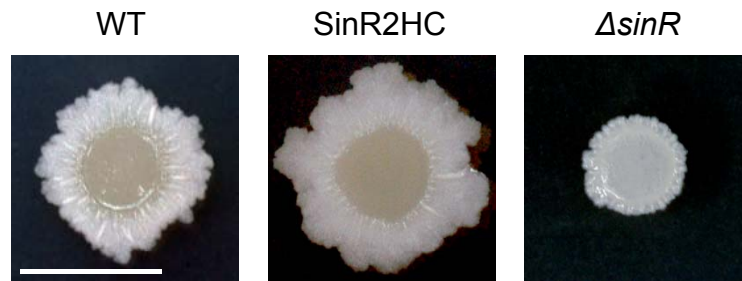


Fig. S4. Effects of SinR2HC on the architecture of colonies.

The architecture of colonies formed by WT (168 BFA), SinR2HC (LY083) and $\Delta sinR$ (LY012) strains grown on MSgg plates for 72 h at 30°C. The scale bar is 0.5 cm.

Table S1. Bacterial strains

Strain	Relevant genotype and description ^a	Reference and source ^b
168 BFA	<i>trpC2</i>	Laboratory stock
NCIB3610	undomesticated wild type	Laboratory stock
DS1882	3610 <i>epsH::tet amyE::P_{eps}-lacZ cat</i>	5
DS3352	3610 <i>epsH::tet amyE::P_{tapA}-lacZ cat</i>	1
OC003	168 <i>abrB::spec</i>	2
TMO310	168 <i>aprE::spec lacI P_{spac}-mazF</i>	7
LY001	168 <i>veg::pMUTinHisΔveg</i>	pMUTinHisΔveg → 168 BFA
LY002	168 <i>veg::pMUTin2HCΔveg</i>	pMUTin2HCΔveg → 168 BFA
LY011	168 <i>veg::cat</i>	PCR product → 168 BFA
LY012	168 <i>sinR::kan</i>	PCR product → 168 BFA
LY013	168 <i>slrR::kan</i>	PCR product → 168 BFA
LY014	168 <i>sinI</i> (no marker)	PCR product → 168 BFA (removal of <i>erm</i>)
LY015	168 pO-MCS <i>tet</i>	pO-MCS → 168 BFA
LY016	168 pO-veg <i>tet</i>	pO-veg → 168 BFA
LY017	168 <i>veg::cat sinR::kan</i>	LY012 → LY011
LY018	168 <i>veg::cat slrR::kan</i>	LY013 → LY011
LY019	168 <i>veg::cat sinI</i>	LY011 → LY014
LY020	168 <i>slrR::kan sinI</i>	LY013 → LY014
LY021	168 <i>veg::cat slrR::kan sinI</i>	LY013 → LY019
LY022	168 <i>sinR::kan</i> pO-MCS <i>tet</i>	LY012 → LY015
LY023	168 <i>sinR::kan</i> pO-veg <i>tet</i>	LY012 → LY016
LY024	168 <i>slrR::kan</i> pO-MCS <i>tet</i>	pO-MCS → LY013
LY025	168 <i>slrR::kan</i> pO-veg <i>tet</i>	pO-veg → LY013
LY026	168 <i>sinI</i> pO-MCS <i>tet</i>	pO-MCS → LY014
LY027	168 <i>sinI</i> pO-veg <i>tet</i>	pO-veg → LY014
LY028	168 <i>slrR::kan sinI</i> pO-MCS <i>tet</i>	pO-MCS → LY020
LY029	168 <i>slrR::kan sinI</i> pO-veg <i>tet</i>	pO-veg → LY020
LY030	168 <i>veg::erm</i>	pCm::Em → LY011
LY031	168 <i>epsH::tet amyE::P_{eps}-lacZ cat</i>	DS1882 → 168 BFA
LY032	168 <i>epsH::tet amyE::P_{tapA}-lacZ cat</i>	DS3352 → 168 BFA
LY033	168 <i>epsH::spec amyE::P_{tapA}-lacZ cat</i>	pTc::Sp → LY032
LY034	168 <i>epsH::spec</i>	LY033 → 168 BFA
LY035	168 <i>epsH::spec amyE::P_{eps}-lacZ cat</i>	LY034 → LY031
LY036	168 <i>epsH::spec amyE::P_{eps}-lacZ cat</i> pO-MCS <i>tet</i>	pO-MCS → LY035
LY037	168 <i>epsH::spec amyE::P_{eps}-lacZ cat</i> pO-veg <i>tet</i>	pO-veg → LY035
LY038	168 <i>epsH::spec amyE::P_{tapA}-lacZ cat</i> pO-MCS <i>tet</i>	pO-MCS → LY033
LY039	168 <i>epsH::spec amyE::P_{tapA}-lacZ cat</i> pO-veg <i>tet</i>	pO-veg → LY033
LY040	168 <i>veg::erm epsH::tet amyE::P_{eps}-lacZ cat</i>	LY030 → LY031
LY041	168 <i>veg::erm epsH::tet amyE::P_{tapA}-lacZ cat</i>	LY030 → LY032
LY042	168 <i>sinR::kan epsH::tet amyE::P_{eps}-lacZ cat</i>	LY012 → LY031
LY043	168 <i>sinR::kan epsH::tet amyE::P_{tapA}-lacZ cat</i>	LY012 → LY032
LY044	168 <i>slrR::kan epsH::tet amyE::P_{eps}-lacZ cat</i>	LY013 → LY031
LY045	168 <i>slrR::kan epsH::tet amyE::P_{tapA}-lacZ cat</i>	LY013 → LY032
LY046	168 <i>sinI epsH::tet amyE::P_{eps}-lacZ cat</i>	LY031 → LY014
LY047	168 <i>sinI epsH::tet amyE::P_{tapA}-lacZ cat</i>	LY032 → LY014
LY048	3610 <i>veg::cat</i>	LY011 → NCIB3610
LY057	3610 pO-MCS <i>tet</i>	pO-MCS → LY015
LY058	3610 pO-veg <i>tet</i>	pO-veg → LY016
LY066	168 <i>abrB::kan</i>	pSp::Km → OC003
LY068	168 <i>abrB::kan epsH::tet amyE::P_{eps}-lacZ cat</i>	LY066 → LY031

LY069	168 <i>abrB</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY066 → LY032
LY070	168 <i>veg</i> :: <i>cat abrB</i> :: <i>kan</i>	LY066 → LY011
LY071	168 <i>abrB</i> :: <i>kan</i> pO-MCS <i>tet</i>	pO-MCS → LY066
LY072	168 <i>abrB</i> :: <i>kan</i> pO-veg <i>tet</i>	pO-veg → LY066
LY083	168 <i>sinR</i> -2 <i>hc cat</i>	PCR product → 168 BFA
LY084	168 <i>sinR</i> -2 <i>hc cat</i> pO-MCS <i>tet</i>	LY083 → LY015
LY085	168 <i>sinR</i> -2 <i>hc cat</i> pO-veg <i>tet</i>	LY083 → LY016
LY091	168 <i>slrA</i> :: <i>kan</i>	PCR product → 168 BFA
LY092	168 <i>slrA</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{eps} - <i>lacZ cat</i>	LY091 → LY031
LY093	168 <i>slrA</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY091 → LY032
LY131	168 <i>sinR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY012 → LY036
LY132	168 <i>sinR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY012 → LY037
LY133	168 <i>sinR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY012 → LY038
LY134	168 <i>sinR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY012 → LY039
LY135	168 <i>veg</i> :: <i>erm sinR</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{eps} - <i>lacZ cat</i>	LY012 → LY040
LY136	168 <i>veg</i> :: <i>erm sinR</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY012 → LY041
LY137	168 <i>slrR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY013 → LY036
LY138	168 <i>slrR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY013 → LY037
LY139	168 <i>slrR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY013 → LY038
LY140	168 <i>slrR</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY013 → LY039
LY141	168 <i>veg</i> :: <i>erm slrR</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{eps} - <i>lacZ cat</i>	LY013 → LY040
LY142	168 <i>veg</i> :: <i>erm slrR</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY013 → LY041
LY143	168 <i>slrA</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY091 → LY036
LY144	168 <i>slrA</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY091 → LY037
LY145	168 <i>slrA</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY091 → LY038
LY146	168 <i>slrA</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY091 → LY039
LY147	168 <i>veg</i> :: <i>erm slrA</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{eps} - <i>lacZ cat</i>	LY091 → LY040
LY148	168 <i>veg</i> :: <i>erm slrA</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY091 → LY041
LY149	168 <i>abrB</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY066 → LY036
LY150	168 <i>abrB</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY066 → LY037
LY151	168 <i>abrB</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY066 → LY038
LY152	168 <i>abrB</i> :: <i>kan epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY066 → LY039
LY153	168 <i>veg</i> :: <i>erm abrB</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{eps} - <i>lacZ cat</i>	LY066 → LY040
LY154	168 <i>veg</i> :: <i>erm abrB</i> :: <i>kan epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY066 → LY041
LY155	168 <i>sinI epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY035 → LY026
LY156	168 <i>sinI epsH</i> :: <i>spec amyE</i> ::P _{eps} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY035 → LY027
LY157	168 <i>sinI epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-MCS <i>tet</i>	LY033 → LY026
LY158	168 <i>sinI epsH</i> :: <i>spec amyE</i> ::P _{tapA} - <i>lacZ cat</i> pO-veg <i>tet</i>	LY033 → LY027
LY159	168 <i>veg</i> :: <i>erm sinI epsH</i> :: <i>tet amyE</i> ::P _{eps} - <i>lacZ cat</i>	LY030 → LY046
LY160	168 <i>veg</i> :: <i>erm sinI epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY030 → LY047
LY161	3610 <i>veg</i> :: <i>erm epsH</i> :: <i>tet amyE</i> ::P _{eps} - <i>lacZ cat</i>	LY030 → DS1882
LY162	3610 <i>veg</i> :: <i>erm epsH</i> :: <i>tet amyE</i> ::P _{tapA} - <i>lacZ cat</i>	LY030 → DS3352

^a Antibiotic resistance genes are expressed as follows: *spec* , spectinomycin; *cat* , chloramphenicol; *kan* , kanamycin; *erm* , erythromycin; *tet* , tetracycline; *neo* , neomycin.

^b '→' indicates a transformation with chromosomal DNA, plasmid DNA or PCR product.

Table S2. Plasmids

Plasmid	Description	Reference and source
pO-MCS	A shuttle vector in <i>E. coli</i> and <i>B. subtilis</i> carrying the multiple cloning site sequence of	10
pO-veg	A shuttle vector in <i>E. coli</i> and <i>B. subtilis</i> carrying the insert sequence of <i>veg</i>	This study
pO-vegx12his	A shuttle vector in <i>E. coli</i> and <i>B. subtilis</i> carrying the insert sequence of <i>vegx12his</i>	This study
pCm::Em	An antibiotic-resistance cassette switching vector from chloramphenicol to erythromycin	Yoshimura unpublished
pTc::Sp	An antibiotic-resistance cassette switching vector from tetracycline to spectinomycin	Yoshimura unpublished
pSp::Km	An antibiotic-resistance cassette switching vector from spectinomycin to kanamycin	Yoshimura unpublished

Table S3. Primers

Primer	Sequence (5' -> 3') ^a	Location			Description	Reference
		start	end	strand		
Deletion of <i>veg</i> from the <i>B. subtilis</i> genome						
veg-Fr-f	GAAACAGTTCAAACAGCCCGAAAAAAGATCCCTCAC	52,245	52,280	+	Genome DNA of 168 BFA	This study
veg-Fr-r	gctctctggtagctatccATTGTACAACACGAGCCCATTTTGTGC	52,739	52,713	-	Genome DNA of 168 BFA	This study
veg-Ba-f	cggaaagatacatcctggGAGCTGACATTTAATGATGACGCCGC	52,977	53,002	+	Genome DNA of 168 BFA	This study
veg-Ba-r	CATTGTATCACATTTGAAGTACAGGATGAACATATCC	53,475	53,439	-	Genome DNA of 168 BFA	This study
Deletion of <i>sinR</i> from the <i>B. subtilis</i> genome						
sinR-Fr-F	GAATACCATCTAGAAAAACAGGCGC	2,551,388	2,551,412	+	Genome DNA of 168 BFA	This study
sinR-Fr-R	gctctctggtagctatccGTGATATTATAGCACATTCAGAAAGG	2,551,868	2,551,843	-	Genome DNA of 168 BFA	This study
sinR-Ba-F	cggaaagatacatcctggGGGTATCGAAAAACAATTCGTG	2,552,149	2,552,173	+	Genome DNA of 168 BFA	This study
sinR-Ba-R	GTCTGCTAAAAATGATGCAGCGCC	2,552,676	2,552,653	-	Genome DNA of 168 BFA	This study
Deletion of <i>slrR</i> from the <i>B. subtilis</i> genome						
slrR-Fr-F	GATTCAGATAGGTGCAATCCGCC	3,528,593	3,528,616	+	Genome DNA of 168 BFA	This study
slrR-Fr-R	gctctctggtagctatccAATGTTTCTGTTTCATTATAAAGG	3,529,106	3,529,083	-	Genome DNA of 168 BFA	This study
slrR-Ba-F	cggaaagatacatcctggGGAAGATGATGATCGGTTAAAGGGC	3,529,581	3,529,605	+	Genome DNA of 168 BFA	This study
slrR-Ba-R	GACAATGACTTCTCCCTGTGCCGC	3,530,057	3,530,034	-	Genome DNA of 168 BFA	This study
Deletion of <i>slrA</i> from the <i>B. subtilis</i> genome						
slrA-Fr-F	TGCTCCTTTGCTGTACCCGGCGCC	3,921,843	3,921,866	+	Genome DNA of 168 BFA	This study
slrA-Fr-R	gctctctggtagctatccAATGTTTCTGCAACATGCGGGC	3,922,321	3,922,298	-	Genome DNA of 168 BFA	This study
slrA-Ba-F	cggaaagatacatcctggACCGTCCGCAAGACTAGTCCGAAC	3,922,483	3,922,507	+	Genome DNA of 168 BFA	This study
slrA-Ba-R	AGCTTGAAGACGGCGTTGCAGC	3,922,993	3,922,970	-	Genome DNA of 168 BFA	This study
Deletion of <i>sinI</i> from the <i>B. subtilis</i> genome						
sinI-Fr-F	GAAGATTTCAAAGCAAGCTGACCC	2,551,154	2,551,178	+	Genome DNA of 168 BFA	This study
sinI-Fr-R	gctctctggtagctatccTTATGTATTTCAGCCAGTCCGGCC	2,551,651	2,551,628	-	Genome DNA of 168 BFA	This study
sinI-Ba-F	cggaaagatacatcctggTCTGCTCATCCTGTCCGGCAGCC	2,551,801	2,551,824	+	Genome DNA of 168 BFA	This study
sinI-Ba-R	GAAAATGAAAAAGCGCATAGCGAGG	2,552,348	2,552,324	-	Genome DNA of 168 BFA	This study
sinI-Fr-f	ggctccggaccagatgagcagaTTATGTATTTCAGCCAGTCCGGCC	2,551,651	2,551,628	-	Genome DNA of 168 BFA	This study
sinI-Ba-f	TCTGCTCATCCTGGTCCGGCAGCC	2,551,801	2,551,824	+	Genome DNA of 168 BFA	This study
sinI-Ba-r	gcttgtagcaattcctctgcGAAAAATGAAAAAGCGCATAGCGAGG	2,552,348	2,552,324	-	Genome DNA of 168 BFA	This study
sinI-Fr-F2	AATGTCACGATTTTACATACAGTCCG	2,551,070	2,551,094	+	Genome DNA of 168 BFA	This study
pAPNC-F	CGACAGCGGAATTGACTCAAGC				Genome DNA of TMO310	7
chpA-R	CGCGGATCTACCAATCAGTACGTTAATTTTG				Genome DNA of TMO310	7
emD-F2	acgtactgattggtaggatccgcGAGTAAAAAGTACTCAACC				Genome DNA of TMO310 and pMUTinNC	This study
Erm-R	caccgccagcctaaccgatCTAACATCCCTTTAGTAACTGTAAAC				pMUTinNC	9
Construction of pO-veg and pO-veg×12his						
attB1-SD-veg-F	aaaaagcagcctcttgggaagaggtgaaagcATGGCGAAGACGTTGTCCGATATTTAAAAG	52,761	52,789	+	Genome DNA of 168 BFA	This study
attB2-veg-R	agaagctgggtCTAAATGCCACTGAGCTTGCAGCGC	53,021	52,997	-	Genome DNA of 168 BFA	This study
pM12HisRattB2	ggggaccattgtacaagaagctggctGAGCTCTCATCTATTTAATGG				12 x His	2
pUCMCS-F-adapter	aaaaagcagcctctTTGTA AAAACGACGCGCCAGTG				pUC19	This study
pUCMCS-R-adapter	agaagctgggtcTGACCATGATTACGCCAAGC				pUC19	This study
Adapter-attB1	GGGGACAAGTTTGTACAAAAAAGCAGGCTCG				<i>attB1</i> site	Invitrogen
Adapter-attB2	GGGGACCACTTTGTACAAAGAAAGCTGGGTC				<i>attB2</i> site	Invitrogen
pDONR-F	TCGCGTTAACGCTAGCATGGATCTCG				pDONR201	Invitrogen
pDONR-R	GTGTCTCAAATCTCTGATGTTAC				pDONR201	Invitrogen
OidFNruI3	CCTCTAGAGTCAAATGTGAG				pMUTinHis	4
TerRSmalb	cgcgccgggGGGTTATTTGCTCATGAGCG				pMUTinHis	4
Construction of the SinR2HC strain						
sinI-Ba-f	TCTGCTCATCCTGGTCCGGCAGCC	2,551,801	2,551,824	+	Genome DNA of 168 BFA	This study
sinR-6his-r	gtgatggtaggtgtagctctctctCTCCTCTTTTGGGATTTTCTCC	2,552,217	2,552,195	-	Genome DNA of 168 BFA	This study
sinR-Cm-Ba-f2	cggaaagatacatcctggCACTAACTCCTCTTTGTCAATAACC	2,552,235	2,552,260	+	Genome DNA of 168 BFA	This study
sinR-Cm-Ba-r	GTTGACAGTTGGAAAAGAGGGCGGC	2,552,760	2,552,736	-	Genome DNA of 168 BFA	This study
DC-2HC-F	ATGAGAGGATCGCATACC				pMUTin2HC	2
DC-2HC-R	gctctctggtagctatccTCATCTATTTATTGAAGCTGC				pMUTin2HC	2
Antibiotics cassette						
rPCR-CmF2	ggatagactcaccagaagagcATCATCGGCAATAGTTACCC				pDLT3	9
rPCR-CmR2	ccaggatgtagtctcctcCGGCGTAGAGGATCTGGAGC				pDLT3	9
rPCR-KmF	ggatagactcaccagaagagcCGCAAAGCTTACGATAAACCCAGC				pDG780	3
rPCR-KmR	ccaggatgtagtctcctcCTAGGTAATAACAATTCATCC				pDG780	3
rPCR-ermF	ggatagactcaccagaagagcAACAATAGGGGTTCCCGCGCA				pMUTin2HC	2
rPCR-ermR	ccaggatgtagtctcctcCTCATAGAATTATTCCTCCCG				pMUTin2HC	2

^a Capital and lower-case letters correspond to sequences annealed to a template and attached tag sequence, and underlined letters indicate an endonuclease recognition site.

Table S4. Genes up- or down-regulated in Veg overexpression cells (pO-veg) more than 2-fold compared with its control cells (pO-MCS).

Transcription unites	Gene name	Location			Expression ratio ^a		Gene function
		start	end	strand	pO-veg/pO-MCS		
Up-regulated							
1	<i>ydaE</i>	472,143	472,646	+	2.7 ± 0.9	unknown	
2	<i>ydcO</i>	531,853	532,113	+	2.6 ± 0.5	unknown	
	<i>ydcT</i>	535,965	536,231	+	2.3 ± 0.4	unknown	
3	<i>xlyB</i>	1,316,849	1,317,802	+	2.3 ± 0.2	N-acetylmuramoyl-L-alanine amidase, peptidoglycan hydrolase	
4	<i>xkdB</i>	1,321,325	1,322,158	+	2.0 ± 0.0	PBSX prophage protein	
	<i>xkDD</i>	1,323,110	1,323,460	+	2.3 ± 0.3	PBSX prophage protein	
	<i>xpf</i>	1,323,779	1,324,288	+	2.3 ± 0.2	RNA polymerase PBSX sigma factor, PBSX prophage protein	
	<i>xkdh</i>	1,330,202	1,330,558	+	2.4 ± 0.4	PBSX prophage protein	
	<i>xkdl</i>	1,330,555	1,331,040	+	2.3 ± 0.3	PBSX prophage protein	
	<i>xkdJ</i>	1,331,053	1,331,493	+	2.1 ± 0.2	PBSX prophage protein	
	<i>xkdo</i>	1,334,279	1,338,277	+	2.5 ± 0.6	PBSX prophage protein	
	<i>xkdp</i>	1,338,222	1,338,929	+	2.6 ± 0.8	PBSX prophage protein	
	<i>xkdQ</i>	1,338,945	1,339,922	+	2.6 ± 0.6	PBSX prophage protein	
	<i>xkdr</i>	1,339,922	1,340,188	+	2.8 ± 0.7	PBSX prophage protein	
	<i>xkds</i>	1,340,245	1,340,670	+	2.5 ± 0.4	PBSX prophage protein	
	<i>xkdt</i>	1,340,663	1,341,709	+	2.4 ± 0.5	PBSX prophage protein	
	<i>xkdu</i>	1,341,693	1,342,271	+	2.5 ± 0.5	PBSX prophage protein	
	<i>xkdv</i>	1,342,542	1,344,605	+	2.5 ± 0.6	PBSX prophage protein	
	<i>xkdw</i>	1,344,617	1,344,946	+	2.6 ± 0.7	PBSX prophage protein	
	<i>xkdx</i>	1,344,943	1,345,107	+	3.0 ± 0.6	PBSX prophage protein	
	<i>xepA</i>	1,345,151	1,345,990	+	2.5 ± 0.3	lytic exoenzyme associated with PBSX prophage	
	<i>xhIA</i>	1,346,043	1,346,312	+	2.3 ± 0.3	involved in cell lysis upon induction of PBSX	
	<i>xlyA</i>	1,346,601	1,347,494	+	2.4 ± 0.4	N-acetylmuramoyl-L-alanine amidase, peptidoglycan hydrolase (PBSX prophage-mediated lysis)	
5	<i>yosJ</i>	2,165,856	2,166,050	-	2.4 ± 0.2	SP-beta protein	
	<i>yorZ</i>	2,169,228	2,169,440	-	2.5 ± 0.5	SP-beta protein	
	<i>yorW</i>	2,169,969	2,170,334	-	2.3 ± 0.1	SP-beta protein	
	<i>yorV</i>	2,170,337	2,170,555	-	2.5 ± 0.6	SP-beta protein	
	<i>mtbP</i>	2,170,599	2,171,930	-	2.2 ± 0.2	modification methylase bsu, SP-beta protein	
	<i>yorG</i>	2,183,646	2,184,617	-	2.4 ± 0.1	SP-beta protein	
	<i>yorF</i>	2,184,700	2,185,614	-	2.5 ± 0.3	SP-beta protein	
6	<i>yonN</i>	2,224,533	2,224,811	+	2.2 ± 0.2	histone-like protein, SP-beta protein	
	<i>yonK</i>	2,226,493	2,226,684	+	2.6 ± 0.1	SP-beta protein	
	<i>yonJ</i>	2,226,701	2,227,918	+	3.0 ± 0.3	SP-beta protein	
	<i>yonH</i>	2,228,581	2,229,081	+	2.8 ± 0.5	SP-beta protein	
	<i>yonE</i>	2,231,878	2,233,398	+	2.3 ± 0.2	SP-beta protein	
	<i>yonD</i>	2,233,429	2,234,865	+	3.8 ± 0.1	SP-beta protein	
	<i>yonC</i>	2,234,890	2,235,426	+	3.8 ± 0.6	SP-beta protein	
	<i>yonB</i>	2,235,465	2,236,481	+	4.2 ± 0.5	SP-beta protein	
	<i>yonA</i>	2,236,517	2,236,987	+	4.2 ± 0.2	SP-beta protein	
	<i>yomZ</i>	2,237,002	2,237,397	+	4.5 ± 0.5	SP-beta protein	
	<i>yomY</i>	2,237,394	2,237,648	+	4.7 ± 0.3	SP-beta protein	
	<i>yomX</i>	2,237,632	2,238,282	+	4.7 ± 0.4	SP-beta protein	
	<i>yomW</i>	2,238,279	2,238,785	+	5.2 ± 0.9	SP-beta protein	
	<i>yomV</i>	2,238,782	2,239,492	+	4.5 ± 0.6	SP-beta protein	
	<i>yomU</i>	2,239,535	2,240,332	+	4.1 ± 0.5	SP-beta protein	
	<i>yomS</i>	2,241,252	2,241,608	+	2.9 ± 0.5	similar to phage-related lytic exoenzyme, SP-beta protein	
	<i>yomR</i>	2,241,610	2,242,827	+	3.3 ± 0.8	similar to phage-related protein, SP-beta protein	
	<i>yomQ</i>	2,242,838	2,243,188	+	3.4 ± 0.3	SP-beta protein	
	<i>yomP</i>	2,243,185	2,243,376	+	2.9 ± 0.1	similar to phage-related protein, SP-beta protein	
	<i>yomO</i>	2,243,426	2,243,926	+	2.8 ± 0.4	SP-beta protein	
	<i>yomN</i>	2,243,910	2,244,329	+	3.2 ± 0.7	SP-beta protein	
	<i>yomM</i>	2,244,343	2,245,344	+	2.9 ± 0.6	integrase/recombinase, SP-beta protein	
	<i>yomD</i>	2,261,633	2,262,457	+	2.3 ± 0.4	SP-beta protein	
7	<i>tasA</i>	2,552,313	2,553,098	-	4.5 ± 1.5	major biofilm matrix component	
	<i>sipW</i>	2,553,162	2,553,734	-	3.9 ± 0.9	type I signal peptidase	
	<i>tapA</i> (<i>yqxM</i>)	2,553,718	2,554,479	-	2.9 ± 0.7	lioprotein for biofilm formation	
8	<i>yqfF</i>	2,647,143	2,647,874	-	2.1 ± 0.1	unknown	
9	<i>yrhK</i>	2,772,583	2,772,873	+	2.5 ± 0.0	unknown	
10	<i>epsO</i> (<i>yvfF</i>)	3,513,146	3,514,114	-	2.6 ± 0.4	putative pyruvyl transferase	
	<i>epsN</i> (<i>yvfE</i>)	3,514,093	3,515,259	-	3.0 ± 0.5	putative amino transferase	
	<i>epsM</i> (<i>yvfD</i>)	3,515,264	3,515,914	-	2.3 ± 0.3	putative O-acetyl transferase	
	<i>epsL</i> (<i>yvfC</i>)	3,515,911	3,516,519	-	2.5 ± 0.5	putative phosphotransferase involved in extracellular matrix synthesis	
	<i>epsK</i> (<i>yvfB</i>)	3,516,516	3,517,553	-	2.6 ± 0.3	putative extracellular matrix component exporter	
	<i>epsK</i> (<i>yvfA</i>)	3,517,703	3,518,032	-	2.9 ± 0.5	putative extracellular matrix component exporter	
	<i>epsJ</i> (<i>yveT</i>)	3,518,029	3,519,063	-	2.5 ± 0.1	putative glycosyl transferase	
	<i>epsI</i> (<i>yveS</i>)	3,519,060	3,520,136	-	2.3 ± 0.1	putative polysaccharide pyruvyl transferase	
	<i>epsG</i> (<i>yveQ</i>)	3,521,200	3,522,303	-	2.7 ± 0.3	biofilm extracellular matrix formation enzyme	
	<i>epsF</i> (<i>yveP</i>)	3,522,300	3,523,454	-	2.1 ± 0.1	putative phosphotransferase involved in extracellular matrix formation	
	<i>epsE</i> (<i>yveO</i>)	3,523,447	3,524,283	-	2.3 ± 0.5	putative glycosyl transferase	
	<i>epsD</i> (<i>yveN</i>)	3,524,280	3,525,425	-	2.3 ± 0.3	putative extracellular matrix biosynthesis enzyme	
	<i>epsB</i> (<i>yveL</i>)	3,527,492	3,528,175	-	2.4 ± 0.4	protein tyrosine kinase	
	<i>epsA</i> (<i>yveK</i>)	3,528,181	3,528,885	-	2.8 ± 0.8	modulator of protein tyrosine kinase EpsB	
11	<i>tagC</i>	3,682,468	3,683,796	+	2.3 ± 0.1	teichoic acid biosynthesis protein C	
12	<i>yxiT</i>	4,006,434	4,006,676	-	2.0 ± 0.0	unknown	
Down-regulated							
1	<i>gamP</i>	254,895	256,790	-	0.5 ± 0.0	PTS glucosamine-specific enzyme IICBA component	
2	<i>ydbN</i>	505,883	506,062	-	0.5 ± 0.0	unknown	
3	<i>yrhP</i>	2,767,269	2,767,901	-	0.4 ± 0.0	RhtB subfamily of amino-acid-efflux protein	
4	<i>yurJ</i>	3,344,040	3,345,143	-	0.3 ± 0.0	similar to multiple sugar transport system ATP-binding protein	
	<i>yurL</i>	3,346,078	3,346,932	-	0.3 ± 0.0	probable sugar kinase	
	<i>yurM</i>	3,346,946	3,347,848	-	0.2 ± 0.0	multiple sugar transport system permease protein	
	<i>yurN</i>	3,347,852	3,348,730	-	0.2 ± 0.0	multiple sugar transport system permease protein	
	<i>yurO</i>	3,348,788	3,350,056	-	0.2 ± 0.0	multiple sugar transport system substrate-binding protein	
	<i>yurP</i>	3,350,137	3,351,123	-	0.2 ± 0.0	probable phosphosugar isomerases	
5	<i>yvaB</i>	3,444,472	3,445,107	-	0.4 ± 0.0	acyl carrier protein phosphodiesterase	
6	<i>yvbA</i>	3,466,085	3,466,357	-	0.4 ± 0.1	transcriptional regulator (ArsR family), inducing the atp and yusLKJ operon	
7	<i>bglH</i>	4,031,364	4,032,773	-	0.5 ± 0.0	beta-glucosidase	

^a Average ratio of transcription signals in 2 independent experiments

Table S5. Transcriptome analysis of AbrB, SigD and Spo0A regulons in Veg overexpression cells (pO-veg) compared with its control cells (pO-MCS).

Regulon	Gene name	Location			Experiment 1			Experiment 2		
					Signal intensity of RNA		Expression ratio	Signal intensity of RNA		Expression ratio
		start	end	strand	pO-veg_01	pO-MCS_01	pO-veg /pO-MCS_01	pO-veg_02	pO-MCS_02	pO-veg /pO-MCS_02
AbrB regulon										
	<i>ybcO</i>	213,926	214,093	+	1321	1590	0.83	1666	2253	0.74
	<i>ybdB</i>	217,681	219,027	+	286	320	0.89	370	448	0.83
	<i>ybdD</i>	219,074	219,487	+	378	425	0.89	565	627	0.90
	<i>ybdE</i>	219,593	220,018	+	196	233	0.84	357	438	0.81
	<i>ybdN</i>	224,063	224,920	-	676	729	0.93	735	693	1.06
	<i>ybfO</i>	249,967	251,307	+	662	543	1.22	1090	960	1.14
	<i>ybfP</i>	251,415	252,302	+	220	185	1.19	407	344	1.18
	<i>lip</i>	291,757	292,395	+	1120	1088	1.03	2629	2542	1.03
	<i>ycaA</i>	298,990	300,054	-	1002	600	1.67	1244	891	1.40
	<i>amyE</i>	327,169	329,151	+	230	248	0.93	214	196	1.09
	<i>yddJ</i>	545,156	545,536	+	618	487	1.27	672	464	1.45
	<i>yddT</i>	556,306	556,992	+	960	933	1.03	1453	1182	1.23
	<i>ydeH</i>	567,206	567,652	+	82	70	1.17	175	185	0.94
	<i>ydeJ</i>	568,834	569,493	-	379	396	0.96	373	444	0.84
	<i>ydhM</i>	626,169	626,480	+	84	87	0.97	87	96	0.91
	<i>ydhN</i>	626,480	626,812	+	51	54	0.95	42	49	0.87
	<i>ydhO</i>	626,831	628,159	+	73	77	0.95	65	75	0.87
	<i>ydhP</i>	628,177	629,574	+	84	88	0.95	73	84	0.86
	<i>ydhQ</i>	629,717	630,430	+	188	142	1.33	139	147	0.95
	<i>ydhR</i>	630,459	631,358	+	186	156	1.19	147	159	0.92
	<i>ydhS</i>	631,355	632,302	+	161	118	1.36	121	129	0.94
	<i>ydhT</i>	632,321	633,409	+	150	113	1.32	116	118	0.98
	<i>pspA</i>	670,793	671,476	+	1625	1423	1.14	2698	2563	1.05
	<i>ydjG</i>	671,542	672,567	+	1108	903	1.23	2258	2332	0.97
	<i>ydjH</i>	672,567	673,331	+	1025	808	1.27	2224	2259	0.98
	<i>ydjI</i>	673,362	674,333	+	1041	851	1.22	1929	1939	0.99
	<i>ydjL</i>	677,459	678,499	-	4727	4574	1.03	4126	3608	1.14
	<i>yerI</i>	724,326	725,336	+	1961	1745	1.12	2165	2138	1.01
	<i>rapH</i>	750,293	751,588	+	2072	1753	1.18	2141	1839	1.16
	<i>yfmI</i>	818,648	819,868	-	114	139	0.82	155	192	0.81
	<i>yfmG</i>	820,204	821,667	+	886	847	1.05	1565	1624	0.96
	<i>yflB</i>	843,721	843,981	+	158	112	1.41	125	119	1.05
	<i>yflA</i>	844,106	845,521	+	3816	3339	1.14	1528	853	1.79
	<i>glpF</i>	1,001,834	1,002,658	+	124	151	0.82	184	240	0.77
	<i>glpK</i>	1,002,677	1,004,167	+	1526	1300	1.17	949	706	1.34
	<i>glpD</i>	1,004,308	1,005,975	+	766	709	1.08	313	380	0.82
	<i>yhaQ</i>	1,061,899	1,062,795	+	548	444	1.23	1128	999	1.13
	<i>yhaP</i>	1,062,788	1,064,047	+	386	328	1.18	966	841	1.15
	<i>yhjM</i>	1,129,020	1,130,009	+	360	324	1.11	456	562	0.81
	<i>yjcM</i>	1,263,014	1,264,243	-	1082	1054	1.03	1521	1923	0.79
	<i>yjdB</i>	1,269,045	1,269,392	-	244	180	1.36	173	147	1.17
	<i>yjdG</i>	1,275,650	1,276,156	-	376	369	1.02	339	403	0.84
	<i>ctaO</i>	1,278,825	1,279,814	-	345	264	1.31	226	326	0.69
	<i>spo0E</i>	1,429,992	1,430,249	+	1618	1898	0.85	1240	1093	1.13
	<i>ykuA</i>	1,467,109	1,469,166	+	586	654	0.90	553	698	0.79
	<i>ykuU</i>	1,491,568	1,492,110	+	1367	1224	1.12	1688	1440	1.17
	<i>ykuV</i>	1,492,182	1,492,643	+	604	526	1.15	816	717	1.14
	<i>yknW</i>	1,502,889	1,503,584	+	2537	2495	1.02	3192	3238	0.99
	<i>yknX</i>	1,503,589	1,504,722	+	1073	1064	1.01	2759	3093	0.89
	<i>yknY</i>	1,504,723	1,505,415	+	1018	1013	1.01	2580	2653	0.97
	<i>yknZ</i>	1,505,412	1,506,605	+	1066	1053	1.01	2303	2400	0.96
	<i>nprE</i>	1,539,343	1,540,908	-	149	149	1.00	201	224	0.90
	<i>ylaE</i>	1,544,243	1,544,854	-	332	441	0.75	287	365	0.79
	<i>ctaC</i>	1,559,773	1,560,843	+	777	1176	0.66	513	807	0.64
	<i>ctaD</i>	1,560,876	1,562,744	+	704	1118	0.63	521	805	0.65
	<i>ctaE</i>	1,562,744	1,563,367	+	551	949	0.58	463	738	0.63
	<i>ctaF</i>	1,563,370	1,563,702	+	535	861	0.62	367	681	0.54
	<i>ctaG</i>	1,563,729	1,564,622	+	322	556	0.58	274	434	0.63
	<i>ylbA</i>	1,564,654	1,565,016	-	1156	1603	0.72	1233	1640	0.75
	<i>sigG</i>	1,604,927	1,605,709	+	51	55	0.92	57	71	0.80
	<i>ymzB</i>	1,859,209	1,859,565	-	831	578	1.44	677	446	1.52
	<i>ymaE</i>	1,859,644	1,860,342	-	409	391	1.05	695	581	1.20
	<i>yncM</i>	1,902,720	1,903,472	-	1302	1444	0.90	1213	1276	0.95
	<i>ynzD</i>	1,922,050	1,922,223	-	136	123	1.11	262	307	0.86
	<i>ynfF</i>	1,941,923	1,943,191	-	349	251	1.39	383	298	1.29
	<i>xynD</i>	1,943,322	1,944,863	-	252	180	1.40	312	265	1.18
	<i>ppsE</i>	1,959,407	1,963,246	-	376	406	0.93	408	419	0.97
	<i>ppsD</i>	1,963,254	1,974,065	-	459	495	0.93	462	472	0.98
	<i>ppsC</i>	1,974,090	1,981,757	-	490	534	0.92	494	519	0.95
	<i>ppsB</i>	1,981,774	1,989,456	-	272	305	0.89	329	366	0.90
	<i>ppsA</i>	1,989,481	1,997,166	-	417	437	0.95	389	432	0.90
	<i>yobB</i>	2,049,899	2,050,162	+	99	118	0.83	115	139	0.83
	<i>rapK</i>	2,061,361	2,062,476	+	495	434	1.14	751	864	0.87
	<i>yobO</i>	2,075,417	2,077,837	+	178	186	0.96	171	151	1.14

<i>yocD</i>	2,087,468	2,088,445	+	318	338	0.94	490	515	0.95
<i>yojL</i>	2,114,627	2,115,871	-	1157	1358	0.85	1574	2013	0.78
<i>phy</i>	2,149,306	2,150,454	-	71	63	1.13	70	64	1.08
<i>yorD</i>	2,186,181	2,186,495	-	1394	1469	0.95	1864	2305	0.81
<i>yoqM</i>	2,195,182	2,195,460	+	299	268	1.12	171	151	1.13
<i>yomJ</i>	2,247,613	2,248,296	+	1201	1211	0.99	942	1070	0.88
<i>bdbB</i>	2,264,421	2,264,867	-	189	200	0.95	396	480	0.83
<i>yolJ</i>	2,264,864	2,266,132	-	500	372	1.35	673	816	0.83
<i>bdbA</i>	2,266,132	2,266,545	-	302	179	1.68	387	550	0.70
<i>sunT</i>	2,266,542	2,268,659	-	262	172	1.53	394	523	0.75
<i>sunA</i>	2,268,717	2,268,887	-	4302	4131	1.04	6893	5382	1.28
<i>yolC</i>	2,271,352	2,271,687	+	188	188	1.00	221	245	0.90
<i>yolB</i>	2,271,730	2,272,086	-	1621	1920	0.84	1604	1822	0.88
<i>yolA</i>	2,272,092	2,272,559	-	4304	4869	0.88	3786	4257	0.89
<i>yokL</i>	2,273,185	2,273,718	-	249	207	1.20	375	421	0.89
<i>yokK</i>	2,273,754	2,274,332	-	378	302	1.25	553	592	0.93
<i>yokJ</i>	2,274,396	2,274,893	-	419	360	1.16	683	789	0.87
<i>yokI</i>	2,274,902	2,276,617	-	488	428	1.14	723	865	0.84
<i>yphF</i>	2,387,051	2,387,785	-	418	496	0.84	581	745	0.78
<i>yphE</i>	2,387,807	2,388,010	-	590	658	0.90	821	1018	0.81
<i>sigF</i>	2,442,618	2,443,385	-	325	350	0.93	273	298	0.92
<i>spollAB</i>	2,443,397	2,443,837	-	336	369	0.91	280	287	0.97
<i>spollAA</i>	2,443,834	2,444,187	-	495	575	0.86	448	436	1.03
<i>dacF</i>	2,444,283	2,445,452	-	67	70	0.95	54	66	0.82
<i>tasA</i>	2,552,313	2,553,098	-	2398	427	5.61	2500	719	3.48
<i>sipW</i>	2,553,162	2,553,734	-	612	134	4.56	483	148	3.26
<i>yqxM</i>	2,553,718	2,554,479	-	197	58	3.40	159	66	2.41
<i>yqzG</i>	2,554,751	2,555,077	+	40	42	0.94	53	46	1.17
<i>cccA</i>	2,598,756	2,599,118	-	909	963	0.94	792	877	0.90
<i>antE</i>	2,602,212	2,602,508	+	78	76	1.03	78	102	0.76
<i>yqcG</i>	2,660,329	2,661,924	+	625	512	1.22	726	704	1.03
<i>yqxJ</i>	2,662,778	2,663,140	-	602	533	1.13	759	627	1.21
<i>yqxI</i>	2,663,156	2,663,635	-	1572	1362	1.15	1633	1391	1.17
<i>yqaP</i>	2,690,868	2,691,797	+	2016	1885	1.07	2069	2094	0.99
<i>yrrD</i>	2,738,712	2,739,419	+	2048	2392	0.86	2447	2605	0.94
<i>csn</i>	2,747,210	2,748,043	-	1434	1088	1.32	1082	878	1.23
<i>yrzI</i>	2,778,150	2,778,299	-	1688	2162	0.78	732	847	0.86
<i>yuaB</i>	3,186,542	3,187,087	+	542	398	1.36	705	533	1.32
<i>dhbF</i>	3,279,544	3,286,680	-	457	671	0.68	289	429	0.67
<i>dhbB</i>	3,286,700	3,287,638	-	362	526	0.69	215	362	0.60
<i>dhbE</i>	3,287,666	3,289,285	-	336	427	0.79	200	322	0.62
<i>dhbC</i>	3,289,314	3,290,510	-	468	557	0.84	228	375	0.61
<i>dhbA</i>	3,290,536	3,291,321	-	452	506	0.89	212	358	0.59
<i>yuil</i>	3,291,515	3,292,459	-	738	689	1.07	428	594	0.72
<i>yurI</i>	3,343,140	3,344,006	+	336	329	1.02	304	337	0.90
<i>yvqJ</i>	3,398,118	3,399,386	-	297	289	1.03	323	305	1.06
<i>yvrN</i>	3,411,158	3,412,408	-	908	801	1.13	1214	1279	0.95
<i>yvrO</i>	3,412,380	3,413,069	-	1081	979	1.10	1499	1674	0.90
<i>yvrP</i>	3,413,053	3,414,246	-	912	1028	0.89	1198	1517	0.79
<i>yvgO</i>	3,426,832	3,427,317	+	4318	2901	1.49	2800	1150	2.43
<i>yvaW</i>	3,463,320	3,463,796	+	497	550	0.90	1158	1926	0.60
<i>yvfF</i>	3,513,146	3,514,114	-	380	133	2.87	337	150	2.25
<i>yvfE</i>	3,514,093	3,515,259	-	507	150	3.38	478	183	2.62
<i>yvfD</i>	3,515,264	3,515,914	-	384	154	2.49	335	163	2.05
<i>yvfC</i>	3,515,911	3,516,519	-	387	135	2.86	363	173	2.10
<i>yvfB</i>	3,516,516	3,517,553	-	333	119	2.80	330	135	2.44
<i>yvfA</i>	3,517,703	3,518,032	-	289	87	3.31	300	118	2.55
<i>yveT</i>	3,518,029	3,519,063	-	476	186	2.55	524	217	2.41
<i>yveS</i>	3,519,060	3,520,136	-	334	139	2.40	359	157	2.28
<i>yveR</i>	3,520,141	3,521,175	-	351	190	1.85	494	227	2.17
<i>yveQ</i>	3,521,200	3,522,303	-	252	87	2.90	314	125	2.51
<i>yveP</i>	3,522,300	3,523,454	-	228	102	2.25	258	126	2.05
<i>yveO</i>	3,523,447	3,524,283	-	294	111	2.66	321	159	2.01
<i>yveN</i>	3,524,280	3,525,425	-	435	177	2.45	455	219	2.07
<i>yveM</i>	3,525,437	3,527,233	-	384	192	2.00	317	184	1.73
<i>yveL</i>	3,527,492	3,528,175	-	317	119	2.67	287	134	2.15
<i>yveK</i>	3,528,181	3,528,885	-	423	126	3.36	376	171	2.20
<i>pnbA</i>	3,529,665	3,531,134	+	558	390	1.43	944	804	1.17
<i>yvnA</i>	3,601,104	3,601,577	+	294	252	1.17	261	312	0.83
<i>cypX</i>	3,601,618	3,602,835	-	255	228	1.12	243	244	1.00
<i>yvmC</i>	3,602,851	3,603,597	-	361	318	1.14	408	386	1.06
<i>rbsR</i>	3,700,438	3,701,418	+	206	206	1.00	244	296	0.83
<i>rbsK</i>	3,701,420	3,702,301	+	190	219	0.87	256	329	0.78
<i>rbsD</i>	3,702,298	3,702,693	+	71	99	0.72	126	153	0.83
<i>rbsA</i>	3,702,709	3,704,190	+	120	161	0.75	163	221	0.74
<i>rbsC</i>	3,704,192	3,705,160	+	90	124	0.73	91	131	0.70
<i>rbsB</i>	3,705,172	3,706,089	+	216	279	0.77	208	290	0.72
<i>ywqE</i>	3,730,032	3,730,796	-	113	97	1.17	160	147	1.09
<i>ywqD</i>	3,730,849	3,731,562	-	336	270	1.24	497	526	0.94
<i>ywqC</i>	3,731,552	3,732,298	-	215	226	0.95	377	427	0.88

<i>ywoF</i>	3,749,790	3,751,196	-	614	507	1.21	756	798	0.95
<i>albA</i>	3,835,346	3,836,692	+	3725	2918	1.28	2366	1962	1.21
<i>albB</i>	3,836,705	3,836,866	+	3153	2377	1.33	1724	1474	1.17
<i>albC</i>	3,836,863	3,837,582	+	2003	1173	1.71	1017	911	1.12
<i>albD</i>	3,837,575	3,838,885	+	1512	869	1.74	710	670	1.06
<i>albE</i>	3,838,875	3,840,035	+	1139	656	1.74	498	476	1.05
<i>albF</i>	3,840,040	3,841,320	+	900	587	1.53	372	372	1.00
<i>albG</i>	3,841,317	3,842,018	+	417	282	1.48	149	155	0.96
<i>rocA</i>	3,877,988	3,879,535	-	448	939	0.48	305	434	0.70
<i>rocG</i>	3,879,762	3,881,036	-	310	418	0.74	281	351	0.80
<i>yweA</i>	3,881,213	3,881,677	-	2653	3230	0.82	2078	2278	0.91
<i>ywbF</i>	3,933,380	3,934,579	+	294	287	1.02	391	396	0.99
<i>yxzE</i>	3,981,992	3,982,192	+	382	406	0.94	732	671	1.09
<i>yxxD</i>	4,065,225	4,065,578	+	29	39	0.75	26	29	0.90
<i>yxbD</i>	4,094,376	4,094,855	-	271	268	1.01	716	807	0.89
<i>yxbC</i>	4,094,935	4,095,927	-	1807	2140	0.84	1970	2156	0.91
<i>yxbB</i>	4,096,436	4,097,170	+	2055	2437	0.84	2289	2715	0.84
<i>yxbA</i>	4,097,170	4,097,439	+	1481	1801	0.82	1875	2153	0.87
<i>yxnB</i>	4,097,443	4,097,925	+	1257	1580	0.80	1606	2019	0.80
<i>yxaL</i>	4,101,449	4,102,681	-	1357	1021	1.33	965	853	1.13
<i>yxaJ</i>	4,102,782	4,103,210	-	438	336	1.30	642	571	1.12
<i>yxaB</i>	4,109,973	4,111,004	-	1142	732	1.56	784	362	2.17
<i>yxaA</i>	4,111,097	4,112,245	-	235	187	1.26	280	233	1.20
<i>gntR</i>	4,112,441	4,113,172	+	220	200	1.10	553	375	1.48
<i>gntK</i>	4,113,165	4,114,706	+	282	254	1.11	313	282	1.11
<i>gntP</i>	4,114,735	4,116,081	+	280	223	1.26	338	315	1.07
<i>gntZ</i>	4,116,104	4,117,510	+	453	326	1.39	775	683	1.13
<i>yydJ</i>	4,123,244	4,123,966	-	487	457	1.06	888	1144	0.78
<i>yydI</i>	4,123,987	4,124,616	-	975	919	1.06	1386	1776	0.78
<i>yydH</i>	4,124,766	4,125,524	-	489	458	1.07	1012	1390	0.73
<i>yydG</i>	4,125,505	4,126,464	-	291	263	1.11	1064	1471	0.72

SigD regulon

<i>yjbJ</i>	1,234,475	1,235,020	-	1142	1787	0.64	1024	1300	0.79
<i>yjcP</i>	1,265,926	1,266,429	+	935	940	0.99	1116	1129	0.99
<i>yjfB</i>	1,282,480	1,282,647	-	4138	3845	1.08	3276	2517	1.30
<i>motA</i>	1,433,741	1,434,553	-	2757	3447	0.80	1657	1826	0.91
<i>mcpC</i>	1,462,936	1,464,900	+	2428	2795	0.87	1576	1847	0.85
<i>cheV</i>	1,472,906	1,473,817	+	1075	1721	0.62	840	1273	0.66
<i>flgB</i>	1,690,578	1,690,967	+	1485	1645	0.90	1124	1408	0.80
<i>yoaH</i>	2,028,640	2,030,244	-	636	747	0.85	509	473	1.08
<i>degR</i>	2,307,354	2,307,536	-	438	388	1.13	609	466	1.31
<i>sigA</i>	2,599,447	2,600,562	-	2316	2484	0.93	2541	2689	0.95
<i>tlpB</i>	3,203,106	3,205,094	-	906	678	1.34	853	544	1.57
<i>mcpA</i>	3,205,208	3,207,193	-	2341	2982	0.79	1699	1948	0.87
<i>mcpB</i>	3,209,484	3,211,472	-	2298	2752	0.84	1389	1540	0.90
<i>yvyC</i>	3,633,455	3,633,784	-	1471	1655	0.89	1101	1191	0.92
<i>hag</i>	3,634,017	3,634,931	-	10338	11309	0.91	8218	7537	1.09
<i>yvyF</i>	3,639,662	3,640,081	-	1930	2997	0.64	1537	2178	0.71
<i>lytA</i>	3,661,819	3,662,127	-	1981	2243	0.88	1864	2299	0.81
<i>lytD</i>	3,683,856	3,686,498	-	1722	1710	1.01	1452	1413	1.03
<i>nfrA</i>	3,910,500	3,911,249	-	1010	995	1.01	989	818	1.21
<i>epr</i>	3,938,890	3,940,827	+	2588	2029	1.28	1983	1706	1.16
<i>dlrA</i>	3,951,296	3,952,807	+	1883	1592	1.18	2538	2331	1.09
<i>yxkC</i>	3,988,251	3,988,892	+	4082	4454	0.92	4279	4278	1.00

Spo0A regulon

<i>dnaA</i>	410	1,750	+	742	591	1.26	918	1159	0.79
<i>yaaD</i>	19,060	19,944	+	3198	2739	1.17	3257	3347	0.97
<i>abrB</i>	44,846	45,136	-	2790	3430	0.81	1529	1682	0.91
<i>metS</i>	45,631	47,625	+	902	897	1.00	1312	1453	0.90
<i>veg</i>	52,761	53,021	+	9229	3266	2.83	8854	2773	3.19
<i>spoIIE</i>	70,536	73,019	+	146	111	1.31	100	88	1.14
<i>ybcO</i>	213,926	214,093	+	1321	1590	0.83	1666	2253	0.74
<i>ycgM</i>	344,111	345,022	+	121	140	0.86	200	191	1.05
<i>yerB</i>	714,772	715,767	+	1315	1417	0.93	1752	1941	0.90
<i>yfmI</i>	818,648	819,868	-	114	139	0.82	155	192	0.81
<i>ygaO</i>	965,533	966,006	-	312	294	1.06	320	268	1.20
<i>lytE</i>	1,018,280	1,019,311	+	1099	866	1.27	1316	1644	0.80
<i>comK</i>	1,116,413	1,116,991	+	670	733	0.91	978	1204	0.81
<i>med</i>	1,205,937	1,206,890	+	873	828	1.05	616	570	1.08
<i>yjcP</i>	1,265,926	1,266,429	+	935	940	0.99	1116	1129	0.99
<i>rapA</i>	1,315,179	1,316,315	+	4045	5313	0.76	2750	3115	0.88
<i>ykaA</i>	1,349,793	1,350,410	-	1207	1129	1.07	1174	1188	0.99
<i>kinA</i>	1,469,330	1,471,150	+	299	297	1.01	297	339	0.88
<i>ykfF</i>	1,484,424	1,484,621	+	2185	2345	0.93	3142	3377	0.93
<i>ykuL</i>	1,484,759	1,485,202	+	312	336	0.93	341	314	1.09
<i>ykuV</i>	1,492,182	1,492,643	+	604	526	1.15	816	717	1.14
<i>rok</i>	1,493,094	1,493,669	+	307	330	0.93	488	607	0.80
<i>fruR</i>	1,506,885	1,507,640	+	801	934	0.86	560	388	1.44

<i>kinC</i>	1,517,640	1,518,926	+	564	490	1.15	681	675	1.01
<i>spoII GA</i>	1,603,076	1,604,005	+	39	41	0.96	43	49	0.89
<i>ylmD</i>	1,608,624	1,609,460	+	1686	1521	1.11	1787	1751	1.02
<i>divIVA</i>	1,611,824	1,612,318	+	939	926	1.01	1527	1795	0.85
<i>flgB</i>	1,690,578	1,690,967	+	1485	1645	0.90	1124	1408	0.80
<i>tki</i>	1,919,070	1,921,073	+	1791	1747	1.02	2316	2302	1.01
<i>yneE</i>	1,921,226	1,921,672	+	65	82	0.80	77	85	0.91
<i>yocH</i>	2,092,110	2,092,973	-	2335	1673	1.40	3901	3488	1.12
<i>cotD</i>	2,331,981	2,332,208	-	1096	740	1.48	1081	958	1.13
<i>yppF</i>	2,337,779	2,337,967	+	162	222	0.73	104	158	0.66
<i>yppD</i>	2,338,423	2,338,668	-	45	50	0.90	42	52	0.79
<i>spoII AA</i>	2,443,834	2,444,187	-	495	575	0.86	448	436	1.03
<i>spoOA</i>	2,517,257	2,518,060	-	924	805	1.15	859	889	0.97
<i>sinI</i>	2,551,678	2,551,851	+	351	310	1.13	376	567	0.66
<i>yqzD</i>	2,575,599	2,575,952	+	1783	1470	1.21	1933	1805	1.07
<i>dnaG</i>	2,600,761	2,602,572	-	1192	1257	0.95	1405	1692	0.83
<i>era</i>	2,609,274	2,610,179	-	1565	1383	1.13	1898	2016	0.94
<i>yqcG</i>	2,660,329	2,661,924	+	625	512	1.22	726	704	1.03
<i>yqxI</i>	2,663,156	2,663,635	-	1572	1362	1.15	1633	1391	1.17
<i>yrrL</i>	2,795,114	2,796,196	-	692	544	1.27	976	805	1.21
<i>accD</i>	2,987,732	2,988,520	-	1607	1573	1.02	2284	2377	0.96
<i>yttP</i>	3,031,460	3,032,083	-	59	68	0.86	66	78	0.85
<i>yusE</i>	3,364,096	3,364,416	-	260	238	1.09	301	301	1.00
<i>yvaW</i>	3,463,320	3,463,796	+	497	550	0.90	1158	1926	0.60
<i>ftsE</i>	3,623,851	3,624,537	-	1142	898	1.27	1345	1449	0.93
<i>yvyD</i>	3,630,033	3,630,602	-	6016	6920	0.87	4101	3652	1.12
<i>yvyE</i>	3,645,783	3,646,436	+	469	431	1.09	599	716	0.84
<i>ywqC</i>	3,731,552	3,732,298	-	215	226	0.95	377	427	0.88
<i>spoIID</i>	3,775,745	3,776,776	-	190	194	0.98	133	136	0.98
<i>ywkC</i>	3,797,812	3,798,366	+	433	429	1.01	544	480	1.13
<i>spoOF</i>	3,808,573	3,808,947	-	742	740	1.00	604	811	0.75
<i>rocG</i>	3,879,762	3,881,036	-	310	418	0.74	281	351	0.80
<i>ywcH</i>	3,909,325	3,910,326	-	187	172	1.09	176	156	1.12
<i>nfrA</i>	3,910,500	3,911,249	-	1010	995	1.01	989	818	1.21
<i>dltA</i>	3,951,296	3,952,807	+	1883	1592	1.18	2538	2331	1.09
<i>yxbC</i>	4,094,935	4,095,927	-	1807	2140	0.84	1970	2156	0.91
<i>rocR</i>	4,144,771	4,146,156	+	172	166	1.03	237	277	0.86
<i>soj</i>	4,205,421	4,206,182	-	1343	1173	1.14	1282	1223	1.05

Table S6. Transcriptome analysis in Veg overexpression cells (pO-veg) compared with its control cells (pO-MCS).

Gene name	Location			Experiment 1			Experiment 2			Description ^a
				Signal intensity of RNA		Expression ratio	Signal intensity of RNA		Expression ratio	
	start	end	strand	pO-veg_01	pO-MCS_01	pO-veg /pO-MCS_01	pO-veg_02	pO-MCS_02	pO-veg /pO-MCS_02	
<i>dnaA</i>	410	1,750	+	742	591	1.26	918	1159	0.79	Spo0A regulon
<i>dnaN</i>	1,939	3,075	+	398	279	1.43	687	729	0.94	
<i>yaaA</i>	3,206	3,421	+	699	674	1.04	783	987	0.79	
<i>recF</i>	3,437	4,549	+	1411	1196	1.18	1214	1378	0.88	
<i>yaaB</i>	4,567	4,725	+	1585	1301	1.22	1414	1552	0.91	
<i>gyrB</i>	4,866	6,782	+	1781	1592	1.12	2161	2257	0.96	
<i>gyrA</i>	6,993	9,458	+	1528	1250	1.22	1910	1940	0.99	
<i>yaaC</i>	14,845	15,792	-	51	37	1.39	30	30	0.98	
<i>guaB</i>	15,913	17,379	+	1622	1676	0.97	2065	2079	0.99	
<i>dacA</i>	17,532	18,863	+	815	730	1.12	1175	1389	0.85	
<i>yaaD</i>	19,060	19,944	+	3198	2739	1.17	3257	3347	0.97	Spo0A regulon
<i>yaaE</i>	19,966	20,556	+	3247	2767	1.17	3062	2974	1.03	
<i>serS</i>	20,878	22,155	+	2051	1831	1.12	1615	1508	1.07	
<i>dck</i>	22,494	23,147	-	493	385	1.28	557	558	1.00	
<i>dgk</i>	23,144	23,767	-	467	366	1.27	602	602	1.00	
<i>yaaH</i>	23,866	25,149	-	544	274	1.98	170	78	2.18	
<i>yaaI</i>	25,219	25,764	-	1884	1022	1.84	577	179	3.23	
<i>yaaJ</i>	25,850	26,335	+	249	238	1.04	252	283	0.89	
<i>dnaX</i>	26,812	28,503	+	480	368	1.30	607	664	0.91	
<i>yaaK</i>	28,527	28,850	+	1958	1447	1.35	2186	2475	0.88	
<i>recR</i>	28,865	29,461	+	807	530	1.52	1094	1030	1.06	
<i>yaaL</i>	29,479	29,703	+	421	297	1.42	511	544	0.94	
<i>bofA</i>	29,770	30,033	+	162	100	1.62	171	179	0.95	
<i>csfB</i>	35,529	35,723	+	113	84	1.35	90	61	1.48	
<i>xpaC</i>	35,843	36,457	+	367	340	1.08	290	305	0.95	
<i>yaaN</i>	36,476	37,636	+	381	375	1.02	491	463	1.06	
<i>yaaO</i>	37,718	39,160	+	219	176	1.25	269	293	0.92	
<i>tmk</i>	39,157	39,795	+	757	445	1.70	690	612	1.13	
<i>yaaQ</i>	39,869	40,198	+	1627	1380	1.18	1441	1301	1.11	
<i>yaaR</i>	40,211	40,651	+	1579	1345	1.17	1320	1236	1.07	
<i>holB</i>	40,663	41,652	+	1215	967	1.26	1000	966	1.04	
<i>yaaT</i>	41,655	42,482	+	1272	963	1.32	1226	1267	0.97	
<i>yabA</i>	42,497	42,856	+	305	275	1.11	447	462	0.97	
<i>yabB</i>	42,915	43,658	+	295	225	1.31	364	388	0.94	
<i>yaaZ</i>	43,645	43,944	+	198	166	1.19	374	393	0.95	
<i>yabC</i>	43,919	44,797	+	353	272	1.30	568	556	1.02	
<i>abrB</i>	44,846	45,136	-	2790	3430	0.81	1529	1682	0.91	Spo0A regulon
<i>metS</i>	45,631	47,625	+	902	897	1.00	1312	1453	0.90	Spo0A regulon
<i>yabD</i>	47,704	48,471	+	345	340	1.01	700	642	1.09	
<i>yabE</i>	48,627	49,940	+	624	816	0.76	766	1199	0.64	
<i>mmV</i>	50,085	50,645	+	286	255	1.12	331	399	0.83	
<i>ksgA</i>	50,638	51,516	+	357	282	1.27	461	494	0.93	
<i>yabG</i>	51,678	52,550	+	63	64	0.99	60	65	0.91	
<i>veg</i>	52,761	53,021	+	9229	3266	2.83	8854	2773	3.19	Spo0A regulon
<i>sspF</i>	53,181	53,366	+	131	192	0.68	91	142	0.64	
<i>ispE</i>	53,514	54,383	+	815	816	1.00	1068	1167	0.92	
<i>purR</i>	54,439	55,296	+	1618	1619	1.00	1789	1794	1.00	
<i>yabJ</i>	55,293	55,670	+	2111	2056	1.03	2153	2007	1.07	
<i>spoVG</i>	55,864	56,157	+	3895	4865	0.80	3645	4045	0.90	AbrB regulon
<i>gcaD</i>	56,350	57,720	+	796	720	1.11	1455	1704	0.85	
<i>prs</i>	57,743	58,696	+	840	632	1.33	1497	1543	0.97	
<i>ctc</i>	58,781	59,395	+	5905	6724	0.88	3760	3336	1.13	
<i>spoVC</i>	59,502	60,068	+	1327	1433	0.93	793	761	1.04	
<i>yabK</i>	60,128	60,358	+	1086	1107	0.98	686	683	1.00	
<i>mfd</i>	60,428	63,961	+	827	754	1.10	845	762	1.11	
<i>spoVT</i>	64,097	64,633	+	402	389	1.03	618	515	1.20	
<i>yabM</i>	64,815	66,413	+	175	144	1.22	287	245	1.17	
<i>yabN</i>	66,403	67,872	+	906	811	1.12	1138	1042	1.09	
<i>yabO</i>	67,875	68,135	+	1541	1469	1.05	1787	1691	1.06	
<i>yabP</i>	68,214	68,516	+	956	848	1.13	1051	956	1.10	
<i>yabQ</i>	68,513	69,148	+	1623	1079	1.50	1181	1039	1.14	
<i>divI</i>	69,166	69,543	+	1943	1400	1.39	1674	1880	0.89	
<i>yabR</i>	69,624	70,010	+	2718	2138	1.27	2119	2518	0.84	
<i>spoIIE</i>	70,536	73,019	+	146	111	1.31	100	88	1.14	Spo0A regulon
<i>yabS</i>	73,104	73,841	+	263	175	1.51	169	165	1.03	
<i>yabT</i>	73,807	74,823	+	333	213	1.57	196	128	1.54	
<i>yaaA</i>	74,927	76,345	+	1270	938	1.35	1045	1106	0.94	
<i>hprT</i>	76,342	76,884	+	1578	1182	1.34	1584	1708	0.93	
<i>ftsH</i>	76,982	78,895	+	3022	2696	1.12	2911	3020	0.96	
<i>yaaB</i>	79,090	79,791	+	531	479	1.11	612	616	0.99	
<i>yaaC</i>	79,877	80,752	+	494	414	1.19	690	679	1.02	
<i>yaaD</i>	80,799	81,692	+	290	312	0.93	491	571	0.86	
<i>cysK</i>	81,768	82,694	+	2799	2239	1.25	3065	3426	0.89	
<i>pabB</i>	82,861	84,273	+	604	528	1.14	715	675	1.06	
<i>pabA</i>	84,287	84,871	+	834	885	0.94	1003	1029	0.97	
<i>pabC</i>	84,871	85,752	+	504	438	1.15	643	717	0.90	
<i>sul</i>	85,734	86,591	+	744	648	1.15	963	1044	0.92	
<i>folB</i>	86,584	86,946	+	1136	1062	1.07	1506	1611	0.94	
<i>folK</i>	86,943	87,446	+	926	840	1.10	1208	1300	0.93	
<i>yaaZ</i>	87,398	87,607	+	972	828	1.17	1351	1479	0.91	
<i>yaaF</i>	87,631	88,632	+	1442	1275	1.13	1947	1923	1.01	
<i>lysS</i>	88,724	90,223	+	1554	1380	1.13	2160	1977	1.09	
<i>ctsR</i>	101,446	101,910	+	2925	2794	1.05	1459	1022	1.43	
<i>mcsA</i>	101,924	102,481	+	2872	2494	1.15	975	759	1.29	
<i>mcsB</i>	102,481	103,572	+	3527	2915	1.21	1356	1187	1.14	

<i>clpC</i>	103,569	106,001	+	4646	3614	1.29	2405	2058	1.17
<i>radA</i>	106,093	107,469	+	1845	1291	1.43	1084	923	1.17
<i>yacK</i>	107,473	108,555	+	1920	1449	1.33	1424	1276	1.12
<i>yacL</i>	108,671	109,771	+	2035	1899	1.07	1414	1300	1.09
<i>yacM</i>	109,786	110,484	+	1443	1263	1.14	1129	1064	1.06
<i>yacN</i>	110,477	110,953	+	941	694	1.36	843	867	0.97
<i>glxX</i>	111,044	112,495	+	1889	1704	1.11	2034	2210	0.92
<i>cysE</i>	112,797	113,450	+	611	485	1.26	866	874	0.99
<i>cysS</i>	113,447	114,847	+	851	775	1.10	1078	1027	1.05
<i>yacZ</i>	114,851	115,282	+	644	632	1.02	776	816	0.95
<i>yacO</i>	115,266	116,015	+	1056	1028	1.03	1383	1312	1.05
<i>yacP</i>	116,022	116,534	+	784	716	1.09	984	970	1.01
<i>sigH</i>	116,597	117,253	+	2247	2439	0.92	2032	2540	0.80
<i>secE</i>	117,529	117,708	+	665	837	0.80	1223	1626	0.75
<i>nusG</i>	117,887	118,420	+	1032	945	1.09	1013	1401	0.72
<i>rplK</i>	118,588	119,013	+	4108	4453	0.92	4695	4909	0.96
<i>rplA</i>	119,107	119,805	+	3197	3508	0.91	4094	4361	0.94
<i>rplJ</i>	120,057	120,557	+	3401	3954	0.86	4602	4496	1.02
<i>rplL</i>	120,604	120,975	+	1801	2226	0.81	3186	3238	0.98
<i>ybxB</i>	121,065	121,670	+	568	670	0.85	1026	1188	0.86
<i>rpoB</i>	121,916	125,497	+	2626	2872	0.91	3290	3525	0.93
<i>rpoC</i>	125,559	129,158	+	3201	3755	0.85	3747	3814	0.98
<i>ybxF</i>	129,339	129,587	+	5745	5779	0.99	6169	5939	1.04
<i>rpsL</i>	129,701	130,117	+	6365	6753	0.94	6755	6301	1.07
<i>rpsG</i>	130,159	130,629	+	5468	5991	0.91	5665	5619	1.01
<i>fusA</i>	130,683	132,761	+	6390	6916	0.92	6237	5959	1.05
<i>tufA</i>	132,881	134,071	+	6956	7376	0.94	6276	5852	1.07
<i>ybaC</i>	134,170	135,126	+	151	132	1.14	172	175	0.98
<i>rpsJ</i>	135,362	135,670	+	6127	6618	0.93	5275	5292	1.00
<i>rplC</i>	135,710	136,339	+	5923	6594	0.90	5805	5588	1.04
<i>rplD</i>	136,367	136,990	+	6009	6519	0.92	5545	5168	1.07
<i>rplW</i>	136,990	137,277	+	6655	6955	0.96	6569	6385	1.03
<i>rplB</i>	137,309	138,142	+	6484	7081	0.92	5859	5674	1.03
<i>rpsS</i>	138,200	138,478	+	6230	7027	0.89	6503	6246	1.04
<i>rplV</i>	138,495	138,836	+	6599	7113	0.93	6388	6281	1.02
<i>rpsC</i>	138,840	139,496	+	5299	5971	0.89	5753	5500	1.05
<i>rplP</i>	139,498	139,932	+	5984	6461	0.93	5845	5703	1.02
<i>rpmC</i>	139,922	140,122	+	6000	6127	0.98	4926	5104	0.97
<i>rpsQ</i>	140,145	140,408	+	6162	6746	0.91	6020	5710	1.05
<i>rplN</i>	140,449	140,817	+	7023	7903	0.89	6932	6646	1.04
<i>rplX</i>	140,855	141,166	+	6423	7004	0.92	6038	5577	1.08
<i>rplE</i>	141,193	141,732	+	6268	6792	0.92	5485	5095	1.08
<i>rpsN</i>	141,755	141,940	+	5568	5656	0.98	4859	4400	1.10
<i>rpsH</i>	141,972	142,370	+	6958	7571	0.92	6368	5817	1.09
<i>rplF</i>	142,400	142,939	+	6201	6745	0.92	5705	5308	1.07
<i>rplR</i>	142,972	143,334	+	7285	8034	0.91	6595	6111	1.08
<i>rpsE</i>	143,359	143,859	+	6342	6911	0.92	5664	5371	1.05
<i>rpmD</i>	143,873	144,052	+	3345	3638	0.92	2929	3128	0.94
<i>rplO</i>	144,083	144,523	+	7038	7480	0.94	5898	5566	1.06
<i>secY</i>	144,525	145,820	+	6803	7284	0.93	5699	5378	1.06
<i>adk</i>	145,875	146,528	+	6646	6988	0.95	5538	5201	1.06
<i>map</i>	146,525	147,271	+	6170	6557	0.94	5505	5237	1.05
<i>infA</i>	147,583	147,801	+	6106	4767	1.28	5161	4907	1.05
<i>rpsM</i>	147,971	148,336	+	5970	6389	0.93	5446	5053	1.08
<i>rpsK</i>	148,357	148,752	+	6136	6540	0.94	5338	5056	1.06
<i>rpoA</i>	148,929	149,873	+	6881	7291	0.94	6211	5811	1.07
<i>rplQ</i>	149,951	150,313	+	3846	3982	0.97	3424	3382	1.01
<i>ybxA</i>	150,441	151,286	+	750	746	1.01	1072	1025	1.05
<i>ybaE</i>	151,301	152,131	+	493	481	1.02	662	650	1.02
<i>ybaF</i>	152,128	152,925	+	603	541	1.12	660	652	1.01
<i>truA</i>	152,935	153,678	+	942	759	1.24	1469	1287	1.14
<i>rplM</i>	153,841	154,278	+	4880	5244	0.93	5586	5531	1.01
<i>rpsI</i>	154,299	154,691	+	2539	2947	0.86	3791	3793	1.00
<i>ybaJ</i>	155,155	155,922	+	249	269	0.92	440	505	0.87
<i>ybaK</i>	156,108	156,551	+	36	37	0.97	42	49	0.86
<i>cwlD</i>	156,611	157,324	+	54	56	0.96	51	59	0.86
<i>ybaL</i>	157,420	158,478	+	2247	2439	0.92	2339	2362	0.99
<i>gerD</i>	158,514	159,071	-	32	36	0.89	34	34	1.01
<i>kbaA</i>	159,181	159,777	+	238	298	0.80	282	407	0.69
<i>ybaN</i>	159,778	160,542	-	29	34	0.87	28	31	0.88
<i>ybaR</i>	177,082	178,518	+	280	254	1.10	426	407	1.04
<i>ybaS</i>	178,733	179,584	+	189	149	1.27	244	223	1.10
<i>ybaA</i>	179,594	180,163	-	183	205	0.89	122	162	0.75
<i>feuC</i>	180,168	181,352	-	239	268	0.89	146	187	0.78
<i>feuB</i>	181,345	182,349	-	231	258	0.90	115	142	0.81
<i>feuA</i>	182,368	183,321	-	592	706	0.84	322	425	0.76
<i>ybbB</i>	183,412	185,001	-	291	304	0.96	209	255	0.82
<i>ybbC</i>	185,192	186,436	-	84	96	0.88	92	109	0.84
<i>ybbD</i>	186,450	188,378	-	96	108	0.89	101	118	0.85
<i>ybbE</i>	188,406	189,731	-	107	113	0.95	116	143	0.82
<i>ybbF</i>	189,788	191,155	-	90	91	0.99	89	108	0.82
<i>ybbH</i>	191,181	192,032	-	136	136	1.00	185	211	0.88
<i>ybbI</i>	192,049	192,963	-	177	187	0.95	263	291	0.90
<i>ybbJ</i>	193,134	193,553	-	98	122	0.80	107	107	1.00
<i>ybbK</i>	193,566	194,021	-	269	346	0.78	282	281	1.00
<i>sigW</i>	194,838	195,401	+	3000	2722	1.10	3712	3556	1.04
<i>ybbM</i>	195,415	196,041	+	1416	1287	1.10	2112	1952	1.08
<i>ybbP</i>	196,202	197,023	+	718	700	1.02	783	867	0.90
<i>ybbR</i>	197,016	198,467	+	841	733	1.15	1143	1289	0.89
<i>ybbT</i>	198,486	199,832	+	735	647	1.13	1078	1196	0.90
<i>glmS</i>	200,263	202,065	+	873	836	1.04	1103	1312	0.84

AbrB regulon

<i>alkA</i>	202,533	203,444	-	112	110	1.02	138	140	0.99	
<i>adaA</i>	203,715	204,350	+	46	58	0.80	38	35	1.07	
<i>adaB</i>	204,337	204,876	+	59	63	0.94	42	46	0.92	
<i>ndhF</i>	205,395	206,912	+	101	77	1.31	48	47	1.03	
<i>ybcC</i>	206,927	207,169	+	82	63	1.31	31	37	0.84	
<i>ybcD</i>	207,166	209,430	+	204	133	1.54	59	57	1.02	
<i>ybcF</i>	209,619	210,146	+	242	164	1.48	54	50	1.06	
<i>ybcH</i>	210,210	210,500	+	269	199	1.35	60	58	1.04	
<i>ybcI</i>	210,558	210,932	+	289	215	1.34	73	73	1.00	
<i>ybcL</i>	211,845	213,017	+	68	69	1.00	82	80	1.02	
<i>ybcM</i>	213,141	213,455	+	62	62	1.00	56	74	0.76	
<i>ybcO</i>	213,926	214,093	+	1321	1590	0.83	1666	2253	0.74	Spo0A and AbrB regulon
<i>ybcP</i>	214,160	215,392	+	640	817	0.78	889	1093	0.81	AbrB regulon
<i>ybcS</i>	215,389	215,946	+	515	685	0.75	781	948	0.82	AbrB regulon
<i>ybcT</i>	215,943	216,878	+	447	536	0.83	615	740	0.83	AbrB regulon
<i>ybdA</i>	216,897	217,616	+	498	581	0.86	674	794	0.85	AbrB regulon
<i>ybdB</i>	217,681	219,027	+	286	320	0.89	370	448	0.83	AbrB regulon
<i>ybdD</i>	219,074	219,487	+	378	425	0.89	565	627	0.90	AbrB regulon
<i>ybdE</i>	219,593	220,018	+	196	233	0.84	357	438	0.81	AbrB regulon
<i>ybdG</i>	220,264	221,154	+	119	114	1.04	179	159	1.13	
<i>ybdI</i>	221,246	221,917	+	228	187	1.22	282	252	1.12	
<i>ybdK</i>	221,938	222,900	+	292	237	1.23	395	397	1.00	
<i>ybdL</i>	222,970	223,164	+	724	762	0.95	1142	1132	1.01	
<i>ybdM</i>	223,207	223,977	-	115	109	1.06	109	106	1.02	
<i>ybdN</i>	224,063	224,920	-	676	729	0.93	735	693	1.06	AbrB regulon
<i>ybdO</i>	225,052	226,236	+	1025	1622	0.63	908	1230	0.74	AbrB and SigD regulon
<i>ybxG</i>	226,554	227,942	+	412	510	0.81	542	587	0.92	
<i>csgA</i>	228,054	228,302	+	50	39	1.29	44	37	1.20	
<i>ybxH</i>	228,319	228,510	+	21	22	0.93	31	23	1.30	
<i>ybxI</i>	228,537	229,340	-	177	188	0.95	201	209	0.96	
<i>cypC</i>	229,513	230,766	+	1370	1039	1.32	592	293	2.02	
<i>ybyB</i>	230,807	231,067	-	8763	10016	0.87	5770	4328	1.33	
<i>ybcC</i>	231,336	232,955	+	1255	1471	0.85	994	1204	0.83	
<i>glpQ</i>	233,002	233,883	-	105	126	0.84	100	131	0.76	
<i>glpT</i>	233,982	235,316	-	78	101	0.77	70	99	0.70	
<i>ybcF</i>	235,613	235,861	+	34	38	0.89	44	42	1.05	
<i>ybfA</i>	235,953	236,870	+	185	180	1.03	187	195	0.96	
<i>ybfB</i>	236,867	238,117	+	131	118	1.12	134	135	0.99	
<i>ybfE</i>	238,152	238,436	-	100	73	1.37	160	174	0.92	
<i>ybfF</i>	238,632	239,543	-	197	138	1.43	333	268	1.24	
<i>ybfG</i>	239,632	241,830	-	1349	559	2.41	2187	1126	1.94	
<i>ybfH</i>	241,905	242,825	-	113	144	0.79	132	158	0.84	
<i>ybfI</i>	242,822	243,649	-	160	209	0.77	136	185	0.74	
<i>purT</i>	243,880	245,034	+	1126	1071	1.05	1518	1433	1.06	
<i>mpr</i>	245,178	246,119	+	584	619	0.94	676	650	1.04	
<i>ybfJ</i>	246,082	246,480	+	154	156	0.99	185	203	0.91	
<i>ybfK</i>	246,646	247,536	+	591	498	1.19	569	651	0.87	
<i>psaA</i>	247,732	248,265	+	452	401	1.13	537	614	0.87	
<i>ybfM</i>	248,256	248,744	+	358	286	1.25	439	470	0.93	
<i>psd</i>	248,737	249,528	+	421	343	1.23	443	483	0.92	
<i>ybfN</i>	249,583	249,861	+	64	70	0.92	65	71	0.91	
<i>ybfO</i>	249,967	251,307	+	662	543	1.22	1090	960	1.14	AbrB regulon
<i>ybfP</i>	251,415	252,302	+	220	185	1.19	407	344	1.18	AbrB regulon
<i>ybfQ</i>	252,502	253,470	+	1191	1133	1.05	1342	1206	1.11	
<i>gluP</i>	253,506	254,750	-	145	155	0.93	134	138	0.97	
<i>gamP</i>	254,895	256,790	-	266	550	0.48	236	495	0.48	
<i>gamA</i>	256,811	257,560	-	327	664	0.49	339	625	0.54	
<i>ybgA</i>	257,779	258,486	+	183	171	1.07	210	212	0.99	
<i>ybgB</i>	258,520	258,795	+	69	69	1.01	114	106	1.07	
<i>ybgE</i>	259,004	260,074	+	447	474	0.94	667	579	1.15	
<i>ybgF</i>	260,111	261,523	-	336	239	1.41	619	528	1.17	
<i>ybgG</i>	261,644	262,591	-	251	263	0.96	315	343	0.92	
<i>ybgH</i>	262,720	264,111	-	93	94	1.00	69	73	0.95	
<i>ybgJ</i>	264,181	265,164	-	57	64	0.89	49	57	0.85	
<i>ycbA</i>	265,536	266,699	+	140	127	1.10	134	151	0.89	
<i>ycbB</i>	266,710	267,654	+	134	112	1.19	166	175	0.94	
<i>ycbC</i>	267,881	268,807	+	84	85	0.99	77	96	0.79	
<i>ycbD</i>	268,837	270,303	+	121	131	0.92	107	134	0.80	
<i>ycbE</i>	270,387	271,754	+	77	79	0.97	65	75	0.86	
<i>ycbF</i>	271,791	273,158	+	131	140	0.94	103	125	0.83	
<i>ycbG</i>	273,228	273,929	+	245	232	1.05	423	455	0.93	
<i>ycbH</i>	274,020	275,552	+	118	118	1.00	123	139	0.89	
<i>ycbJ</i>	275,829	276,749	+	825	808	1.02	870	986	0.88	
<i>yczA</i>	277,151	277,312	+	95	115	0.83	151	143	1.06	
<i>ycbK</i>	277,333	278,271	+	179	182	0.98	172	180	0.95	
<i>ycbL</i>	278,368	279,048	+	98	97	1.01	98	118	0.84	
<i>ycbM</i>	279,050	279,526	+	166	175	0.94	252	273	0.92	
<i>ycbN</i>	279,682	280,521	+	119	110	1.08	161	177	0.91	
<i>ycbO</i>	280,640	281,254	+	145	116	1.25	242	237	1.02	
<i>ycbP</i>	281,309	281,695	-	2851	1822	1.56	1679	848	1.98	
<i>cwiJ</i>	282,009	282,437	+	71	69	1.04	61	73	0.84	
<i>ycbR</i>	282,543	283,274	+	93	90	1.04	95	111	0.85	
<i>phoD</i>	283,553	285,223	+	81	80	1.01	59	69	0.86	
<i>tatAD</i>	285,318	285,530	+	58	62	0.93	56	51	1.09	
<i>tatCD</i>	285,591	286,328	+	46	51	0.89	41	47	0.88	
<i>pcp</i>	286,325	286,972	-	422	365	1.16	429	381	1.13	
<i>ycbU</i>	287,051	288,163	+	342	288	1.19	313	287	1.09	
<i>lmrB</i>	288,205	289,644	-	161	134	1.20	313	342	0.92	
<i>lmrA</i>	289,684	290,250	-	169	186	0.91	265	308	0.86	
<i>yccC</i>	290,467	291,594	+	106	132	0.81	79	90	0.88	
<i>lip</i>	291,757	292,395	+	1120	1088	1.03	2629	2542	1.03	AbrB regulon

<i>yczC</i>	292,433	292,816	-	142	134	1.06	141	119	1.18	
<i>yccF</i>	293,051	294,127	+	508	449	1.13	647	725	0.89	
<i>yccG</i>	294,167	295,123	-	150	134	1.12	157	170	0.92	
<i>yccH</i>	295,136	295,837	-	134	123	1.09	172	183	0.94	
<i>natA</i>	295,981	296,721	+	109	96	1.14	118	117	1.02	
<i>natB</i>	296,722	297,882	+	129	101	1.28	193	156	1.23	
<i>yccK</i>	298,018	298,950	+	273	262	1.04	320	310	1.03	
<i>yedA</i>	298,990	300,054	-	1002	600	1.67	1244	891	1.40	AbrB regulon
<i>yedB</i>	300,382	301,800	+	148	140	1.06	209	182	1.15	
<i>yedC</i>	301,987	303,348	+	141	114	1.23	169	171	0.99	
<i>yedD</i>	303,356	303,859	-	152	132	1.15	151	151	1.00	
<i>rapJ</i>	303,982	305,103	+	746	641	1.16	665	724	0.92	
<i>yedF</i>	305,210	305,986	+	3691	2442	1.51	1655	748	2.21	
<i>yedG</i>	306,011	307,696	+	3876	2446	1.58	1428	578	2.47	
<i>yedH</i>	307,884	308,843	+	321	208	1.55	184	181	1.01	
<i>yedI</i>	308,899	309,594	+	202	197	1.02	187	190	0.98	
<i>yceA</i>	309,552	310,394	+	179	142	1.26	252	212	1.19	
<i>yceB</i>	310,432	311,373	-	109	99	1.10	119	121	0.99	
<i>yceC</i>	311,711	312,310	+	3220	2891	1.11	3730	3694	1.01	
<i>yceD</i>	312,332	312,913	+	3413	3105	1.10	3947	3648	1.08	
<i>yceE</i>	312,948	313,526	+	3029	2968	1.02	3732	3585	1.04	
<i>yceF</i>	313,577	314,350	+	3201	3000	1.07	3558	3416	1.04	
<i>yceG</i>	314,435	316,048	+	1352	1199	1.13	1816	1621	1.12	
<i>yceH</i>	316,064	317,155	+	1753	1528	1.15	2303	2036	1.13	
<i>yceI</i>	317,277	318,479	+	911	682	1.34	828	821	1.01	
<i>yceJ</i>	318,732	319,904	-	47	47	1.00	44	47	0.93	
<i>yceK</i>	319,973	320,275	-	154	151	1.02	178	366	0.49	
<i>opuAA</i>	320,565	321,821	+	1600	1171	1.37	2766	3192	0.87	
<i>opuAB</i>	321,823	322,671	+	1964	1644	1.19	3753	3747	1.00	
<i>opuAC</i>	322,671	323,552	+	1618	1523	1.06	3215	3306	0.97	
<i>amhX</i>	323,571	324,740	-	1470	1351	1.09	1324	1212	1.09	
<i>yegA</i>	325,133	326,323	+	297	267	1.11	166	164	1.01	
<i>yegB</i>	326,439	327,020	+	221	198	1.11	147	142	1.03	
<i>amyE</i>	327,169	329,151	+	230	248	0.93	214	196	1.09	AbrB regulon
<i>ldh</i>	329,328	330,293	+	9799	10347	0.95	5502	4795	1.15	
<i>lctP</i>	330,325	331,950	+	7025	7487	0.94	1492	938	1.59	
<i>mdr</i>	332,258	333,538	-	199	242	0.82	270	414	0.65	
<i>yegE</i>	333,651	334,118	+	137	132	1.04	118	178	0.66	
<i>yegF</i>	334,192	334,821	+	168	142	1.18	162	215	0.75	
<i>yegG</i>	334,891	335,652	+	123	109	1.13	125	169	0.74	
<i>yegH</i>	335,684	336,817	-	59	61	0.95	51	61	0.84	
<i>yegI</i>	336,984	337,718	+	52	52	1.01	53	68	0.77	
<i>nadE</i>	337,848	338,666	+	3557	2595	1.37	2235	1644	1.36	
<i>tmrB</i>	338,716	339,309	-	127	113	1.12	184	160	1.15	
<i>aroK</i>	339,585	340,145	+	103	113	0.91	154	161	0.96	
<i>yegJ</i>	340,173	340,859	-	121	131	0.92	122	126	0.97	
<i>yegK</i>	341,052	342,026	+	83	91	0.91	96	124	0.77	
<i>cah</i>	342,098	343,054	+	138	145	0.95	260	335	0.78	
<i>yegL</i>	343,138	343,920	+	154	132	1.17	370	385	0.96	
<i>yegM</i>	344,111	345,022	+	121	140	0.86	200	191	1.05	Spo0A regulon
<i>yegN</i>	345,039	346,586	+	214	220	0.97	328	323	1.02	
<i>yegO</i>	346,782	348,131	+	716	481	1.49	1054	946	1.11	
<i>yegP</i>	348,284	349,519	+	136	155	0.88	151	158	0.95	
<i>yegQ</i>	349,556	350,413	-	109	106	1.03	208	208	1.00	
<i>yegR</i>	350,418	351,302	-	118	104	1.13	147	159	0.92	
<i>yegS</i>	351,402	352,256	-	61	71	0.87	85	87	0.98	
<i>yegT</i>	352,418	353,428	+	575	805	0.71	457	676	0.68	
<i>nasF</i>	353,460	354,911	-	1595	829	1.92	514	389	1.32	
<i>nasE</i>	354,972	355,292	-	2563	1327	1.93	495	303	1.64	
<i>nasD</i>	355,324	357,741	-	2621	1216	2.16	395	207	1.91	
<i>nasC</i>	357,863	359,995	-	105	100	1.05	83	97	0.86	
<i>nasB</i>	360,002	362,314	-	101	93	1.09	79	82	0.96	
<i>nasA</i>	362,494	363,759	+	153	131	1.17	106	116	0.92	
<i>yciA</i>	363,815	364,732	+	37	39	0.93	35	38	0.92	
<i>yciB</i>	364,729	365,313	+	39	44	0.89	39	48	0.81	
<i>yciC</i>	365,622	366,815	+	68	67	1.00	45	56	0.81	
<i>yekA</i>	366,864	367,544	-	92	108	0.86	183	207	0.89	
<i>yekB</i>	367,554	368,417	-	247	279	0.89	380	509	0.75	
<i>yekC</i>	368,795	369,250	+	223	141	1.58	146	115	1.28	
<i>yekD</i>	369,332	369,664	+	49	53	0.91	47	49	0.95	
<i>yekE</i>	369,818	371,251	+	73	74	0.99	83	88	0.95	
<i>nin</i>	371,288	371,686	-	675	709	0.95	572	851	0.67	
<i>nucA</i>	371,713	372,156	-	1344	1345	1.00	1395	1657	0.84	
<i>tlpC</i>	372,330	374,051	-	464	366	1.27	405	348	1.16	SigD regulon
<i>hxlB</i>	374,162	374,719	-	997	1236	0.81	250	253	0.99	
<i>hxlA</i>	374,725	375,357	-	1012	1265	0.80	245	273	0.90	
<i>hxlR</i>	375,589	375,951	+	368	420	0.88	481	561	0.86	
<i>srfAA</i>	376,525	387,291	+	5449	6398	0.85	5098	5311	0.96	
<i>srfAB</i>	387,304	398,067	+	6857	8150	0.84	5967	6010	0.99	
<i>srfAC</i>	398,104	401,928	+	6740	7877	0.86	5980	6048	0.99	
<i>srfAD</i>	401,957	402,685	+	4807	6035	0.80	4409	4528	0.97	
<i>yexA</i>	402,786	404,015	+	392	514	0.76	368	487	0.76	
<i>yexB</i>	404,030	404,587	-	104	94	1.11	134	130	1.04	
<i>yexC</i>	404,641	405,579	-	96	86	1.12	65	79	0.83	
<i>yexD</i>	405,703	407,037	+	77	78	0.99	74	85	0.87	
<i>sfp</i>	407,210	407,707	-	183	183	1.00	238	233	1.02	
<i>yczE</i>	407,812	408,459	-	126	142	0.89	169	176	0.96	
<i>yekI</i>	408,777	409,520	-	668	349	1.92	700	447	1.57	
<i>yekJ</i>	409,534	410,238	-	499	255	1.96	536	343	1.56	
<i>yekK</i>	410,225	411,031	-	859	493	1.74	928	604	1.54	
<i>yelA</i>	411,146	412,018	-	267	195	1.37	181	109	1.66	

<i>yclB</i>	412,108	412,722	+	87	95	0.92	66	78	0.85
<i>yclC</i>	412,725	414,146	+	61	72	0.84	68	77	0.88
<i>yclD</i>	414,163	414,852	+	69	78	0.88	75	87	0.86
<i>yclE</i>	414,918	415,763	+	138	135	1.02	116	118	0.98
<i>yclF</i>	415,803	417,281	-	64	69	0.93	62	73	0.84
<i>yclG</i>	417,561	419,315	+	60	57	1.05	46	52	0.89
<i>yczF</i>	419,331	419,552	-	29	32	0.91	39	37	1.06
<i>gerKA</i>	419,678	421,312	+	101	96	1.05	78	96	0.81
<i>gerKC</i>	421,302	422,525	+	98	88	1.11	94	92	1.03
<i>gerKB</i>	422,550	423,671	+	85	81	1.06	90	87	1.03
<i>yclH</i>	423,776	424,456	-	74	72	1.03	61	69	0.88
<i>yclI</i>	424,472	425,932	-	95	87	1.09	69	90	0.77
<i>yclJ</i>	426,145	426,828	+	325	301	1.08	281	259	1.09
<i>yclK</i>	426,815	428,236	+	587	480	1.22	565	533	1.06
<i>rapC</i>	428,399	429,547	+	1372	1352	1.02	1102	1398	0.79
<i>yclM</i>	430,191	431,555	-	444	497	0.89	745	687	1.08
<i>yclN</i>	431,940	432,890	+	535	433	1.24	529	629	0.84
<i>yclO</i>	432,883	433,830	+	607	428	1.42	600	692	0.87
<i>yclP</i>	433,824	434,582	+	1136	792	1.43	1110	1307	0.85
<i>yclQ</i>	434,604	435,557	+	1253	875	1.43	1383	1665	0.83
<i>yclnB</i>	435,604	437,022	-	294	230	1.28	391	342	1.14
<i>yclnC</i>	437,042	437,920	-	466	411	1.13	494	485	1.02
<i>yclnD</i>	438,084	438,833	-	484	734	0.66	552	821	0.67
<i>yclnE</i>	438,850	439,137	+	456	793	0.58	865	1198	0.72
<i>yczG</i>	439,277	439,591	-	152	175	0.87	222	223	1.00
<i>gabR</i>	439,593	441,032	-	64	67	0.95	76	79	0.96
<i>gabT</i>	441,139	442,449	+	109	113	0.96	94	100	0.94
<i>gabD</i>	442,518	443,906	+	978	832	1.18	891	754	1.18
<i>glcU</i>	444,029	444,892	+	54	60	0.89	42	59	0.71
<i>gdh</i>	444,912	445,697	-	85	84	1.00	68	78	0.87
<i>yclnI</i>	445,742	446,356	-	557	496	1.12	295	284	1.04
<i>yclnJ</i>	446,369	447,994	-	730	589	1.24	348	344	1.01
<i>yclnK</i>	448,029	448,601	-	771	575	1.34	406	373	1.09
<i>yclnL</i>	448,766	449,119	+	202	169	1.19	190	207	0.92
<i>mtlA</i>	449,292	451,124	+	123	200	0.62	133	202	0.66
<i>mtlD</i>	451,177	452,277	+	155	248	0.62	143	230	0.62
<i>yclsA</i>	452,385	453,449	+	218	262	0.83	215	277	0.78
<i>sipU</i>	453,584	454,147	+	108	141	0.77	138	205	0.68
<i>yczH</i>	454,257	454,814	-	401	348	1.15	337	312	1.08
<i>yclsD</i>	454,900	455,292	+	249	242	1.03	168	213	0.79
<i>yclsE</i>	455,622	456,371	+	477	428	1.12	631	644	0.98
<i>yclsF</i>	456,576	457,349	+	452	628	0.72	447	476	0.94
<i>yclsG</i>	457,364	458,578	+	287	479	0.60	460	496	0.93
<i>yclsI</i>	458,584	459,375	+	183	259	0.71	279	313	0.89
<i>kipI</i>	459,419	460,141	+	244	331	0.74	424	441	0.96
<i>kipA</i>	460,144	461,157	+	216	257	0.84	360	378	0.95
<i>kipR</i>	461,173	461,913	+	267	285	0.94	425	476	0.89
<i>yclsK</i>	461,988	462,629	+	116	121	0.95	228	258	0.88
<i>yczI</i>	462,802	463,047	+	682	589	1.16	1343	1343	1.00
<i>yczJ</i>	463,053	463,340	-	756	740	1.02	649	563	1.15
<i>pbpC</i>	463,491	465,497	+	1671	1338	1.25	1947	1791	1.09
<i>yclsN</i>	465,599	466,501	+	1406	1390	1.01	1512	1513	1.00
<i>mtlR</i>	466,687	468,771	+	194	239	0.81	220	291	0.76
<i>ydaB</i>	468,982	470,379	+	265	178	1.49	138	118	1.18
<i>ydaC</i>	470,514	471,059	-	441	252	1.75	150	60	2.51
<i>ydaD</i>	471,267	472,127	+	3277	1695	1.93	1633	472	3.46
<i>ydaE</i>	472,143	472,646	+	2799	1366	2.05	977	298	3.28
<i>ydaF</i>	472,731	473,282	+	709	734	0.97	645	668	0.97
<i>ydaG</i>	473,360	473,782	+	7104	6456	1.10	4367	2815	1.55
<i>ydaH</i>	474,288	475,097	+	126	97	1.29	212	187	1.14
<i>ydaA</i>	475,141	475,431	-	489	393	1.24	222	203	1.09
<i>lrpC</i>	475,616	476,050	+	235	236	0.99	191	202	0.94
<i>topB</i>	476,115	478,298	+	830	630	1.32	897	881	1.02
<i>ydaJ</i>	478,501	479,589	+	376	271	1.39	180	129	1.40
<i>ydaK</i>	479,570	480,421	+	287	165	1.74	122	98	1.25
<i>ydaL</i>	480,432	482,141	+	333	167	2.00	145	111	1.31
<i>ydaM</i>	482,134	483,396	+	295	155	1.90	153	117	1.30
<i>ydaN</i>	483,402	485,513	+	245	143	1.71	192	133	1.44
<i>ydaO</i>	485,989	487,812	+	181	164	1.10	204	224	0.91
<i>mutT</i>	487,871	488,320	+	104	77	1.36	83	75	1.11
<i>ydaP</i>	488,387	490,111	+	3986	2843	1.40	2076	1020	2.03
<i>ydaQ</i>	490,288	490,578	+	150	116	1.30	86	72	1.20
<i>nntH</i>	490,702	491,979	-	1264	1219	1.04	1049	1129	0.93
<i>ydaS</i>	492,209	492,466	-	3095	2608	1.19	1814	772	2.35
<i>ydaT</i>	492,544	492,996	-	2521	1709	1.47	1115	475	2.35
<i>ydbA</i>	493,114	493,932	+	224	216	1.04	228	258	0.88
<i>gsiB</i>	494,061	494,432	+	8725	9205	0.95	7340	5942	1.24
<i>ydbB</i>	494,564	494,905	+	438	377	1.16	478	439	1.09
<i>ydbC</i>	494,899	495,258	+	352	276	1.28	392	354	1.11
<i>ydbD</i>	495,295	496,116	-	2043	1963	1.04	1486	789	1.88
<i>dctB</i>	496,207	497,259	-	143	173	0.83	190	250	0.76
<i>dctS</i>	497,329	498,936	+	142	141	1.01	172	222	0.78
<i>dctR</i>	498,926	499,606	+	142	151	0.94	189	263	0.72
<i>dctP</i>	499,727	500,992	+	109	118	0.93	151	189	0.80
<i>ydbI</i>	501,140	502,192	+	382	331	1.16	482	506	0.95
<i>ydbJ</i>	502,469	503,395	+	626	461	1.36	754	707	1.07
<i>ydbK</i>	503,415	504,155	+	537	357	1.51	554	509	1.09
<i>ydbL</i>	504,250	504,585	+	1274	1363	0.93	704	549	1.28
<i>ydbM</i>	504,713	505,858	+	943	888	1.06	681	615	1.11
<i>ydbN</i>	505,883	506,062	-	925	2020	0.46	274	570	0.48
<i>ydbO</i>	506,427	507,299	+	444	323	1.37	640	612	1.05

<i>ydbP</i>	507,314	507,634	-	695	681	1.02	697	598	1.16	
<i>ddl</i>	507,809	508,873	+	891	765	1.17	1079	989	1.09	
<i>murF</i>	508,945	510,318	+	503	382	1.32	741	579	1.28	
<i>ydbR</i>	510,667	512,202	+	2613	2153	1.21	2762	3045	0.91	
<i>ydbS</i>	512,375	512,854	+	1093	979	1.12	1768	1851	0.96	
<i>ydbT</i>	512,844	514,325	-	660	614	1.07	1236	1353	0.91	
<i>ydcA</i>	514,577	515,176	-	162	154	1.05	137	176	0.78	
<i>acpS</i>	515,271	515,636	+	278	258	1.08	473	490	0.96	
<i>ydcC</i>	515,697	516,818	+	214	200	1.07	386	414	0.93	
<i>alr</i>	516,933	518,102	+	537	477	1.13	891	831	1.07	
<i>ydcD</i>	518,218	518,499	+	3521	3653	0.96	5338	5639	0.95	
<i>ydcE</i>	518,504	518,854	+	1398	1496	0.93	2841	3074	0.92	
<i>rsbR</i>	518,969	519,793	+	542	499	1.08	844	895	0.94	
<i>rsbS</i>	519,798	520,163	+	683	611	1.12	1163	1130	1.03	
<i>rsbT</i>	520,167	520,568	+	754	718	1.05	1497	1394	1.07	
<i>rsbU</i>	520,580	521,587	+	710	707	1.00	1420	1310	1.08	
<i>rsbV</i>	521,649	521,978	+	6080	6754	0.90	4162	3609	1.15	
<i>rsbW</i>	521,975	522,457	+	7110	7593	0.94	4396	3927	1.12	
<i>sigB</i>	522,417	523,211	+	6982	7503	0.93	3774	3383	1.12	
<i>rsbX</i>	523,211	523,810	+	7202	7516	0.96	4242	3909	1.09	
<i>ydcF</i>	524,053	524,346	+	149	155	0.96	96	126	0.76	
<i>ydcG</i>	524,343	524,783	+	261	266	0.98	211	236	0.89	
<i>ydcH</i>	524,767	525,210	+	119	121	0.99	87	93	0.93	
<i>ydcI</i>	525,304	527,463	+	363	268	1.36	600	508	1.18	
<i>ydcK</i>	527,690	528,142	+	244	207	1.18	241	274	0.88	
<i>ydcL</i>	529,066	530,172	-	213	185	1.15	363	421	0.86	
<i>ydcM</i>	530,185	530,694	-	256	216	1.19	361	423	0.85	
<i>ydcN</i>	530,691	531,074	-	174	173	1.01	239	270	0.88	
<i>sacV</i>	531,348	531,542	+	849	309	2.75	1079	655	1.65	
<i>ydcO</i>	531,853	532,113	+	431	144	3.00	702	311	2.26	
<i>ydcP</i>	532,483	532,863	+	929	328	2.83	1192	617	1.93	
<i>ydcQ</i>	532,899	534,341	+	327	136	2.41	430	241	1.78	
<i>ydcR</i>	534,334	535,392	+	340	138	2.47	526	274	1.92	
<i>ydcS</i>	535,657	535,926	+	326	157	2.08	571	327	1.75	
<i>ydcT</i>	535,965	536,231	+	675	259	2.60	929	455	2.04	
<i>yddA</i>	536,248	536,556	+	320	139	2.29	574	317	1.81	
<i>yddB</i>	536,546	537,610	+	352	150	2.34	604	319	1.90	
<i>yddC</i>	537,622	537,870	+	374	218	1.71	746	336	2.22	
<i>yddD</i>	537,883	538,407	+	275	109	2.53	351	200	1.76	
<i>yddE</i>	538,295	540,790	+	176	87	2.02	259	153	1.69	
<i>yddF</i>	540,809	541,135	+	119	57	2.09	271	142	1.91	
<i>yddG</i>	541,139	543,586	+	196	105	1.86	310	177	1.76	
<i>yddH</i>	543,583	544,572	+	173	106	1.64	242	155	1.56	
<i>yddI</i>	544,587	545,093	+	136	74	1.83	208	114	1.83	
<i>yddJ</i>	545,156	545,536	+	618	487	1.27	672	464	1.45	
<i>yddK</i>	545,727	546,527	-	208	202	1.03	271	324	0.84	AbrB regulon
<i>rapI</i>	546,867	548,042	+	297	199	1.49	294	226	1.30	
<i>yddM</i>	548,271	549,212	+	260	184	1.41	335	276	1.21	
<i>yddN</i>	549,783	550,802	-	56	50	1.13	62	60	1.04	
<i>lrpA</i>	551,062	551,472	+	96	90	1.07	148	180	0.82	
<i>lrpB</i>	551,595	552,044	-	29	33	0.87	37	37	1.00	
<i>yddQ</i>	552,159	552,701	+	78	75	1.04	113	105	1.07	
<i>yddR</i>	553,254	554,018	+	84	82	1.03	82	76	1.08	
<i>yddS</i>	554,212	555,522	+	122	120	1.01	119	112	1.07	
<i>yddT</i>	556,306	556,992	+	960	933	1.03	1453	1182	1.23	AbrB regulon
<i>ydeA</i>	557,952	558,545	+	98	93	1.06	116	105	1.11	
<i>cspC</i>	558,808	559,008	+	997	1149	0.87	1750	2267	0.77	
<i>ydeB</i>	559,695	560,156	-	1297	1157	1.12	781	1037	0.75	
<i>ydeE</i>	560,724	560,960	-	60	57	1.06	70	79	0.89	
<i>ydeC</i>	561,058	561,933	-	73	78	0.94	80	94	0.85	
<i>ydeD</i>	562,046	563,005	-	44	57	0.77	48	54	0.90	
<i>ydeE</i>	563,158	564,030	-	76	73	1.04	98	104	0.95	
<i>ydeF</i>	564,248	565,645	+	76	87	0.87	91	103	0.89	
<i>ydeG</i>	565,755	567,047	+	54	63	0.86	59	66	0.89	
<i>ydeH</i>	567,206	567,652	+	82	70	1.17	175	185	0.94	AbrB regulon
<i>ydeI</i>	567,889	568,482	+	88	103	0.85	90	105	0.86	
<i>ydeJ</i>	568,834	569,493	-	379	396	0.96	373	444	0.84	AbrB regulon
<i>ydeK</i>	569,915	570,778	-	93	109	0.86	76	83	0.92	
<i>ydeL</i>	570,933	572,324	+	73	68	1.08	86	92	0.94	
<i>ydeM</i>	572,518	572,943	+	362	268	1.35	409	452	0.90	
<i>ydeN</i>	572,996	573,568	-	201	198	1.01	232	215	1.08	
<i>ydeF</i>	573,650	573,979	-	230	225	1.02	214	192	1.11	
<i>ydeO</i>	574,234	575,106	+	632	422	1.50	828	779	1.06	
<i>ydeP</i>	575,256	575,642	-	115	94	1.22	129	160	0.81	
<i>ydeQ</i>	575,753	576,346	+	203	183	1.11	139	114	1.22	
<i>ydeR</i>	576,490	577,677	-	41	45	0.92	40	44	0.91	
<i>ydeS</i>	577,881	578,477	+	254	222	1.15	257	314	0.82	
<i>ydeT</i>	579,085	579,420	+	109	131	0.83	152	175	0.87	
<i>ydfA</i>	579,433	580,740	+	135	143	0.94	202	229	0.88	
<i>ydfB</i>	581,238	582,023	+	60	57	1.07	67	60	1.12	
<i>ydfC</i>	582,080	583,000	-	31	33	0.92	29	32	0.91	
<i>ydfD</i>	583,133	584,581	+	54	61	0.88	68	70	0.96	
<i>ydfE</i>	584,699	585,322	-	69	73	0.93	78	106	0.74	
<i>ydfF</i>	585,412	586,092	+	210	198	1.06	224	236	0.95	
<i>ydfG</i>	586,172	586,615	-	375	430	0.87	613	590	1.04	
<i>ydfH</i>	587,288	588,511	+	142	125	1.14	173	171	1.01	
<i>ydfI</i>	588,504	589,145	+	135	116	1.17	195	203	0.96	
<i>ydfJ</i>	589,261	591,435	+	52	56	0.92	54	58	0.93	
<i>nap</i>	591,847	592,749	-	562	397	1.41	405	420	0.97	
<i>ydfK</i>	592,951	593,640	-	35	39	0.89	41	40	1.02	
<i>ydfL</i>	593,730	594,542	-	126	127	0.99	145	139	1.04	

<i>ydjM</i>	594,653	595,546	-	38	41	0.93	46	46	0.99	
<i>ydjN</i>	596,022	596,642	+	121	127	0.95	120	183	0.66	
<i>ydjO</i>	596,658	597,596	+	250	180	1.39	135	209	0.65	
<i>ydjP</i>	597,698	598,087	+	178	157	1.13	136	197	0.69	
<i>ydjQ</i>	598,273	598,611	+	44	44	1.00	44	40	1.11	
<i>yzdH</i>	598,651	598,887	-	25	31	0.80	23	21	1.06	
<i>ydjR</i>	599,773	600,450	-	37	44	0.83	33	42	0.78	
<i>ydjS</i>	600,563	601,270	+	46	50	0.92	50	53	0.94	
<i>cotP</i>	601,285	601,716	-	27	32	0.85	27	28	0.97	
<i>ydjA</i>	601,729	601,971	-	20	25	0.79	23	26	0.86	
<i>ydjB</i>	601,985	602,257	-	21	30	0.71	23	26	0.88	
<i>ydjC</i>	602,556	603,143	+	610	470	1.30	1190	1252	0.95	
<i>ydjD</i>	603,140	603,484	+	338	278	1.21	832	729	1.14	
<i>ydjE</i>	603,647	604,120	+	240	227	1.06	553	527	1.05	
<i>expZ</i>	604,280	605,923	-	346	445	0.78	244	254	0.96	
<i>ydjF</i>	606,243	607,619	-	317	307	1.03	345	348	0.99	
<i>dinB</i>	607,791	608,309	-	1467	992	1.48	1400	966	1.45	
<i>ydjG</i>	608,478	608,936	+	52	51	1.00	99	108	0.92	
<i>ydjH</i>	608,933	611,590	+	161	139	1.15	236	209	1.13	
<i>ydjI</i>	611,736	612,365	-	117	116	1.01	190	213	0.89	
<i>ydjJ</i>	612,381	612,875	-	155	170	0.91	221	255	0.87	
<i>ydjK</i>	613,186	614,394	+	109	103	1.06	149	162	0.92	
<i>ydjL</i>	614,389	615,168	-	260	197	1.32	131	119	1.10	
<i>ydjM</i>	615,417	616,091	+	334	354	0.94	298	365	0.81	
<i>ydjN</i>	616,218	617,537	+	99	87	1.14	79	84	0.94	
<i>ydjO</i>	617,683	618,828	+	281	251	1.12	169	179	0.94	
<i>ydjP</i>	618,867	619,577	-	46	45	1.01	43	40	1.07	
<i>phoB</i>	619,643	621,031	-	92	91	1.01	82	87	0.94	
<i>ydjQ</i>	621,393	621,764	+	279	268	1.04	416	384	1.09	
<i>ydjR</i>	621,840	622,337	-	166	159	1.04	152	164	0.93	
<i>ydjS</i>	622,355	622,837	-	143	140	1.02	110	116	0.94	
<i>ydjT</i>	622,920	623,897	+	209	160	1.31	223	186	1.20	
<i>ydjU</i>	624,039	624,656	+	3966	3357	1.18	2076	1848	1.12	
<i>ydjV</i>	624,672	625,838	-	67	72	0.93	46	54	0.86	
<i>ydjW</i>	626,169	626,480	+	84	87	0.97	87	96	0.91	AbrB regulon
<i>ydjX</i>	626,480	626,812	+	51	54	0.95	42	49	0.87	AbrB regulon
<i>ydjY</i>	626,831	628,159	+	73	77	0.95	65	75	0.87	AbrB regulon
<i>ydjZ</i>	628,177	629,574	+	84	88	0.95	73	84	0.86	AbrB regulon
<i>ydj1</i>	629,717	630,430	+	188	142	1.33	139	147	0.95	AbrB regulon
<i>ydj2</i>	630,459	631,358	+	186	156	1.19	147	159	0.92	AbrB regulon
<i>ydj3</i>	631,355	632,302	+	161	118	1.36	121	129	0.94	AbrB regulon
<i>ydj4</i>	632,321	633,409	+	150	113	1.32	116	118	0.98	AbrB regulon
<i>ydj5</i>	633,470	633,925	-	26	31	0.83	32	33	0.97	
<i>thiL</i>	640,209	641,186	+	269	243	1.11	350	363	0.96	
<i>ydiB</i>	641,201	641,677	+	192	173	1.11	356	367	0.97	
<i>ydiC</i>	641,658	642,347	+	360	283	1.27	521	498	1.05	
<i>ydiD</i>	642,357	642,812	+	432	337	1.28	738	667	1.11	
<i>gcp</i>	642,805	643,845	+	464	361	1.29	684	585	1.17	
<i>ydiF</i>	644,075	646,003	-	567	456	1.24	594	442	1.34	
<i>ydiG</i>	646,129	646,641	+	565	464	1.22	617	667	0.93	
<i>ydiH</i>	646,638	647,285	+	727	637	1.14	702	745	0.94	
<i>tatAY</i>	647,307	647,480	+	602	526	1.14	662	963	0.69	
<i>tatCY</i>	647,487	648,251	+	683	695	0.98	508	581	0.87	
<i>ydiK</i>	648,289	648,480	-	85	112	0.75	220	293	0.75	
<i>ydiL</i>	648,477	649,211	-	392	347	1.13	366	408	0.90	
<i>groES</i>	649,450	649,734	+	4071	4357	0.93	4948	4652	1.06	
<i>groEL</i>	649,781	651,415	+	2937	3165	0.93	3506	3522	1.00	
<i>ydiM</i>	652,979	653,359	+	197	153	1.29	252	196	1.29	
<i>ydiN</i>	654,526	654,741	+	275	208	1.33	341	269	1.27	
<i>ydiO</i>	654,771	656,054	+	712	498	1.43	660	548	1.20	
<i>ydiP</i>	656,076	657,245	+	1074	692	1.55	1075	891	1.21	
<i>ydiQ</i>	657,731	657,919	+	37	30	1.24	29	32	0.89	
<i>ydiR</i>	659,171	660,112	+	718	612	1.17	944	950	0.99	
<i>ydiS</i>	660,144	661,175	+	873	654	1.33	1130	1092	1.03	
<i>ydjA</i>	661,178	662,575	+	610	469	1.30	853	855	1.00	
<i>ydjB</i>	663,149	663,484	+	77	70	1.10	162	169	0.96	
<i>ydjC</i>	663,867	664,217	+	47	44	1.06	68	70	0.97	
<i>gutR</i>	664,323	666,812	-	228	237	0.96	264	266	0.99	
<i>gutB</i>	667,014	668,075	+	164	167	0.98	141	159	0.88	
<i>gutP</i>	668,149	669,540	+	64	65	0.98	74	72	1.02	
<i>ydjE</i>	669,635	670,597	+	1007	934	1.08	1237	1121	1.10	
<i>pspA</i>	670,793	671,476	+	1625	1423	1.14	2698	2563	1.05	AbrB regulon
<i>ydjG</i>	671,542	672,567	+	1108	903	1.23	2258	2332	0.97	AbrB regulon
<i>ydjH</i>	672,567	673,331	+	1025	808	1.27	2224	2259	0.98	AbrB regulon
<i>ydjI</i>	673,362	674,333	+	1041	851	1.22	1929	1939	0.99	AbrB regulon
<i>ydjJ</i>	674,380	675,405	-	966	622	1.55	238	93	2.55	
<i>ydjK</i>	675,990	677,411	+	60	59	1.02	52	58	0.89	
<i>ydjL</i>	677,459	678,499	-	4727	4574	1.03	4126	3608	1.14	AbrB regulon
<i>ydjM</i>	678,938	679,309	+	185	116	1.59	457	482	0.95	
<i>ydjN</i>	679,375	680,421	+	305	187	1.63	760	695	1.09	
<i>ydjO</i>	680,803	681,012	-	4406	3972	1.11	4370	4069	1.07	
<i>ydjP</i>	681,095	681,910	-	532	427	1.25	912	832	1.10	
<i>yeaA</i>	681,923	682,912	-	373	338	1.10	661	611	1.08	
<i>cotA</i>	683,010	684,551	-	144	145	1.00	123	134	0.92	
<i>gabP</i>	684,703	686,112	-	1111	1126	0.99	1010	1108	0.91	
<i>yeaB</i>	686,510	687,382	+	105	111	0.95	109	128	0.85	
<i>yeaC</i>	687,535	688,497	+	284	241	1.18	280	294	0.95	
<i>yeaD</i>	688,881	689,693	+	357	241	1.48	508	457	1.11	
<i>yeaE</i>	689,890	691,857	+	351	247	1.42	555	496	1.12	
<i>guaA</i>	692,090	693,631	+	1205	1089	1.11	1590	1710	0.93	
<i>pbuG</i>	694,011	695,333	+	119	140	0.85	313	505	0.62	

<i>yebC</i>	695,535	696,338	+	279	260	1.07	363	321	1.13	
<i>yebD</i>	696,497	696,790	+	93	99	0.94	66	50	1.32	
<i>yebE</i>	696,880	697,434	+	921	875	1.05	462	214	2.16	
<i>yebG</i>	697,434	697,631	+	772	724	1.07	393	319	1.23	
<i>purE</i>	697,954	698,442	+	492	520	0.95	918	1289	0.71	
<i>purK</i>	698,435	699,574	+	562	554	1.01	1376	1765	0.78	
<i>purB</i>	699,571	700,866	+	1040	1006	1.03	2301	2698	0.85	
<i>purC</i>	700,939	701,664	+	1442	1493	0.97	2945	3244	0.91	
<i>purS</i>	701,657	701,911	+	1180	1219	0.97	2507	2960	0.85	
<i>purQ</i>	701,908	702,591	+	1028	1063	0.97	2110	2641	0.80	
<i>purL</i>	702,575	704,803	+	1657	1836	0.90	2777	3174	0.87	
<i>purF</i>	704,779	706,209	+	2247	2596	0.87	3061	3427	0.89	
<i>purM</i>	706,311	707,351	+	2019	2235	0.90	2680	2967	0.90	
<i>purN</i>	707,348	707,935	+	2064	2240	0.92	2411	2705	0.89	
<i>purH</i>	707,932	709,470	+	2746	3005	0.91	3023	3342	0.90	
<i>purD</i>	709,486	710,754	+	2091	2292	0.91	2359	2546	0.93	
<i>yezC</i>	710,957	711,214	-	180	189	0.95	173	202	0.86	
<i>yeaA</i>	711,358	712,749	+	85	96	0.89	77	85	0.91	
<i>yeaA</i>	713,003	714,745	+	658	645	1.02	456	419	1.09	
<i>yerB</i>	714,772	715,767	+	1315	1417	0.93	1752	1941	0.90	Spo0A regulon
<i>yerC</i>	715,770	716,084	+	77	101	0.76	180	177	1.02	
<i>yerD</i>	716,119	717,696	-	2278	1325	1.72	734	288	2.55	
<i>pcrB</i>	717,961	718,647	+	378	328	1.15	533	621	0.86	
<i>pcrA</i>	718,709	720,928	+	576	392	1.47	1000	906	1.10	
<i>ligA</i>	720,952	722,958	+	674	520	1.30	1212	997	1.22	
<i>yerH</i>	722,974	724,164	+	675	571	1.18	1317	1117	1.18	
<i>yerI</i>	724,326	725,336	+	1961	1745	1.12	2165	2138	1.01	AbrB regulon
<i>sapB</i>	725,374	726,072	-	265	220	1.20	228	226	1.01	
<i>opuE</i>	726,179	727,657	-	1551	1102	1.41	1093	1024	1.07	
<i>gatC</i>	728,071	728,361	+	1886	1958	0.96	2853	3148	0.91	
<i>gatA</i>	728,377	729,834	+	1600	1580	1.01	2433	2518	0.97	
<i>gatB</i>	729,848	731,278	+	1471	1593	0.92	2253	2336	0.96	
<i>yerO</i>	731,293	732,162	-	89	100	0.90	95	122	0.78	
<i>yerP</i>	732,255	735,452	+	936	829	1.13	2080	2225	0.93	
<i>yerQ</i>	735,775	736,686	+	482	450	1.07	580	648	0.90	
<i>yefA</i>	736,942	738,321	+	316	264	1.20	467	469	1.00	
<i>yefB</i>	738,334	739,236	-	34	38	0.88	38	37	1.01	
<i>yefC</i>	739,175	739,552	+	59	51	1.17	108	100	1.08	
<i>yeaA</i>	739,627	742,266	+	119	93	1.28	196	173	1.13	
<i>yeaB</i>	742,278	744,074	+	404	291	1.39	609	477	1.28	
<i>yeaC</i>	744,187	745,335	+	399	332	1.20	561	481	1.17	
<i>yeaD</i>	745,597	745,902	-	64	59	1.09	54	53	1.01	
<i>yeaA</i>	745,969	746,175	-	84	74	1.13	60	75	0.81	
<i>yeaF</i>	746,415	748,898	-	474	436	1.09	552	521	1.06	
<i>yeaG</i>	749,034	750,131	+	53	61	0.86	52	61	0.85	
<i>rapH</i>	750,293	751,588	+	2072	1753	1.18	2141	1839	1.16	AbrB regulon
<i>yeaI</i>	751,749	752,468	+	1688	1530	1.10	2176	2243	0.97	
<i>yeaK</i>	752,602	753,039	+	96	98	0.98	108	111	0.97	
<i>yezE</i>	753,154	753,738	+	594	671	0.89	883	986	0.90	
<i>yesE</i>	753,817	754,260	+	96	114	0.84	130	163	0.80	
<i>yesF</i>	754,257	755,117	+	125	126	0.99	133	142	0.94	
<i>cotJA</i>	755,244	755,492	+	41	57	0.72	47	65	0.72	
<i>cotJB</i>	755,437	755,739	+	35	43	0.80	35	38	0.92	
<i>cotJC</i>	755,754	756,323	+	216	210	1.03	120	151	0.79	
<i>yesJ</i>	756,448	756,990	+	347	328	1.06	407	403	1.01	
<i>yesK</i>	756,926	757,315	+	98	94	1.04	66	86	0.76	
<i>yesL</i>	757,430	758,059	+	90	95	0.94	92	105	0.88	
<i>yesM</i>	758,056	759,789	+	78	83	0.93	72	87	0.84	
<i>yesN</i>	759,789	760,895	+	95	92	1.04	79	88	0.89	
<i>yesO</i>	761,044	762,282	+	97	104	0.93	77	89	0.86	
<i>yesP</i>	762,279	763,208	+	84	90	0.93	72	88	0.82	
<i>yesQ</i>	763,212	764,102	+	78	80	0.98	62	70	0.88	
<i>yesR</i>	764,118	765,152	+	146	148	0.99	128	172	0.74	
<i>yesS</i>	765,175	767,460	+	127	127	1.00	103	112	0.93	
<i>yesT</i>	767,474	768,172	+	105	111	0.95	89	107	0.83	
<i>yesU</i>	768,165	768,827	+	97	86	1.14	63	74	0.85	
<i>yesV</i>	768,824	769,450	+	89	80	1.11	65	67	0.96	
<i>yesW</i>	769,571	771,433	+	118	123	0.97	84	107	0.79	
<i>yesX</i>	771,479	773,317	+	131	127	1.03	96	123	0.78	
<i>yesY</i>	773,475	774,128	+	88	89	0.99	64	76	0.85	
<i>yesZ</i>	774,136	776,127	+	117	115	1.01	86	100	0.86	
<i>yetA</i>	776,171	778,744	+	173	170	1.02	130	156	0.83	
<i>lplA</i>	778,866	780,374	+	126	111	1.13	88	104	0.85	
<i>lplB</i>	780,429	781,385	+	43	47	0.92	42	43	0.98	
<i>lplC</i>	781,399	782,286	+	85	83	1.02	83	85	0.99	
<i>lplD</i>	782,295	783,635	+	80	82	0.98	76	81	0.95	
<i>yefF</i>	783,718	784,413	+	82	87	0.94	70	86	0.82	
<i>yetG</i>	784,450	784,827	-	1946	2408	0.81	1132	1570	0.72	
<i>yetH</i>	784,880	785,242	-	602	591	1.02	434	431	1.01	
<i>yetI</i>	785,522	786,607	+	172	211	0.82	155	182	0.86	
<i>yezB</i>	786,613	786,897	+	156	191	0.82	150	181	0.83	
<i>yezD</i>	787,052	787,219	+	35	24	1.44	58	149	0.39	
<i>yetJ</i>	787,329	787,973	+	783	609	1.28	1156	1143	1.01	
<i>yetK</i>	787,973	788,965	+	539	492	1.10	844	924	0.91	
<i>yetL</i>	788,989	789,492	-	71	84	0.85	67	79	0.84	
<i>yetM</i>	789,655	790,764	+	108	107	1.00	82	100	0.82	
<i>yetN</i>	790,799	791,869	-	147	136	1.08	183	183	1.00	
<i>yetO</i>	792,019	795,204	+	478	246	1.95	151	116	1.30	
<i>yfiI</i>	795,651	797,570	+	802	706	1.14	1347	1418	0.95	
<i>yfiH</i>	797,806	798,570	+	76	76	1.01	63	67	0.94	
<i>yfiG</i>	798,640	799,545	+	85	93	0.91	72	86	0.84	

<i>yfnF</i>	799,569	800,480	+	59	57	1.04	53	54	0.99	
<i>yfnE</i>	800,509	801,687	+	67	65	1.04	64	68	0.95	
<i>yfnD</i>	801,688	802,623	+	90	88	1.02	87	100	0.87	
<i>yfnC</i>	802,654	803,883	-	467	411	1.14	384	364	1.06	
<i>yfnB</i>	803,994	804,701	-	276	269	1.03	208	242	0.86	
<i>yfnA</i>	804,793	806,178	-	118	125	0.95	317	345	0.92	
<i>yfmT</i>	806,428	807,885	+	3184	3301	0.96	2003	2085	0.96	SigD regulon
<i>yfmS</i>	807,899	808,759	+	3030	2993	1.01	1556	1739	0.89	
<i>yfmR</i>	808,894	810,783	+	620	553	1.12	655	612	1.07	
<i>yfmQ</i>	810,906	811,352	+	2160	1415	1.53	831	679	1.22	
<i>yfmP</i>	811,477	811,899	+	209	173	1.20	199	261	0.76	
<i>yfmO</i>	811,965	813,155	+	82	82	1.00	73	79	0.92	
<i>yfmM</i>	813,721	815,277	-	329	324	1.02	447	482	0.93	
<i>yfmL</i>	815,450	816,580	+	404	397	1.02	518	446	1.16	
<i>yfmK</i>	816,648	817,094	+	243	228	1.07	290	317	0.92	
<i>yfmJ</i>	817,147	818,166	-	289	360	0.80	406	480	0.85	
<i>yfmI</i>	818,648	819,868	-	114	139	0.82	155	192	0.81	Spo0A and AbrB regulon
<i>yfmG</i>	820,204	821,667	+	886	847	1.05	1565	1624	0.96	AbrB regulon
<i>yfmF</i>	822,240	823,040	-	700	614	1.14	738	725	1.02	
<i>yfmE</i>	823,053	824,054	-	383	315	1.22	429	429	1.00	
<i>yfmD</i>	824,051	825,052	-	294	258	1.14	332	334	0.99	
<i>yfmC</i>	825,124	826,071	-	1348	1518	0.89	1225	1316	0.93	
<i>yfmB</i>	826,180	826,548	-	496	608	0.82	325	298	1.09	
<i>yfmA</i>	826,589	826,756	+	41	41	0.99	48	61	0.79	
<i>yfIT</i>	826,792	827,139	+	5253	6106	0.86	3758	2477	1.52	
<i>pel</i>	827,330	828,592	+	2529	2963	0.85	2812	3084	0.91	
<i>yfIS</i>	828,719	830,155	+	369	333	1.11	186	159	1.17	
<i>citS</i>	830,282	831,910	+	389	335	1.16	444	481	0.92	
<i>citT</i>	831,882	832,562	+	362	291	1.24	408	479	0.85	
<i>yfIP</i>	832,745	833,524	+	286	239	1.20	325	382	0.85	
<i>citM</i>	833,720	835,021	+	381	406	0.94	538	491	1.10	
<i>yfIN</i>	835,077	835,871	+	204	237	0.86	214	284	0.75	
<i>yfIM</i>	836,071	837,081	+	373	326	1.14	522	488	1.07	
<i>yfIL</i>	837,072	837,347	-	165	154	1.07	147	173	0.85	
<i>yfIK</i>	837,414	838,079	+	411	314	1.31	477	403	1.18	
<i>yfII</i>	838,414	838,569	-	856	583	1.47	475	471	1.01	
<i>yfIH</i>	838,676	838,990	-	1041	907	1.15	790	600	1.32	
<i>yfIG</i>	839,072	839,821	-	1007	844	1.19	1099	1045	1.05	
<i>naqP</i>	839,993	841,351	+	808	763	1.06	567	566	1.00	
<i>yfIE</i>	841,384	843,333	-	576	760	0.76	866	1033	0.84	
<i>yfIB</i>	843,721	843,981	+	158	112	1.41	125	119	1.05	AbrB regulon
<i>yfIA</i>	844,106	845,521	+	3816	3339	1.14	1528	853	1.79	AbrB regulon
<i>yfKT</i>	845,518	846,594	-	25	31	0.81	30	31	0.98	
<i>yfKS</i>	846,618	846,818	-	19	27	0.70	24	23	1.03	
<i>yfKR</i>	846,834	847,988	-	57	66	0.86	49	54	0.90	
<i>yfKQ</i>	847,969	849,510	-	48	52	0.93	41	49	0.84	
<i>treP</i>	849,703	851,115	+	87	78	1.11	73	78	0.94	
<i>treA</i>	851,186	852,871	+	97	91	1.06	75	78	0.96	
<i>treR</i>	852,892	853,608	+	252	263	0.96	340	441	0.77	
<i>yfKO</i>	853,748	854,413	+	229	251	0.91	275	318	0.87	
<i>yfKN</i>	854,450	858,838	-	339	292	1.16	439	396	1.11	
<i>yfKM</i>	859,081	859,599	+	3925	3219	1.22	1995	1031	1.93	
<i>yfKL</i>	859,639	860,829	-	183	154	1.19	213	234	0.91	
<i>yfKK</i>	860,922	861,137	-	376	342	1.10	476	480	0.99	
<i>yfKJ</i>	861,340	861,810	+	3594	2256	1.59	2167	966	2.24	
<i>yfKI</i>	861,828	862,148	+	5017	3511	1.43	2664	1404	1.90	
<i>yfKH</i>	862,172	862,999	+	3855	2590	1.49	1718	826	2.08	
<i>yfKF</i>	863,198	864,373	-	100	111	0.90	116	154	0.75	
<i>yfKE</i>	864,541	865,596	+	1347	917	1.47	538	305	1.76	
<i>yfKD</i>	865,667	866,461	+	1149	756	1.52	514	301	1.71	
<i>yfKC</i>	866,500	867,342	-	127	111	1.14	202	188	1.07	
<i>yfKB</i>	867,343	867,804	-	191	179	1.07	348	354	0.98	
<i>yfKA</i>	867,999	868,463	-	168	161	1.04	241	256	0.94	
<i>yfJT</i>	868,608	868,793	+	121	144	0.84	267	375	0.71	
<i>yfJS</i>	868,894	869,685	+	68	77	0.87	81	104	0.78	
<i>yfJR</i>	869,723	870,508	-	302	307	0.98	427	442	0.97	
<i>yfJO</i>	870,682	871,641	-	222	184	1.21	352	358	0.98	
<i>yfJP</i>	871,760	872,623	+	226	258	0.87	196	252	0.78	
<i>yfIO</i>	872,737	874,137	+	345	369	0.94	429	558	0.77	
<i>yfjN</i>	875,761	876,738	+	171	157	1.09	342	325	1.05	
<i>yfjM</i>	876,934	877,386	+	180	188	0.96	239	245	0.97	
<i>yfjL</i>	877,416	878,105	+	235	228	1.03	372	381	0.98	
<i>acoA</i>	878,337	879,338	+	51	57	0.89	48	55	0.86	
<i>acoB</i>	879,342	880,370	+	76	79	0.96	63	76	0.83	
<i>acoC</i>	880,384	881,580	+	104	105	0.99	105	115	0.91	
<i>acoL</i>	881,601	882,977	+	128	135	0.95	110	129	0.85	
<i>acoR</i>	883,093	884,910	+	94	94	1.00	89	111	0.80	
<i>sspH</i>	884,964	885,143	+	67	88	0.75	129	150	0.86	
<i>yfjF</i>	885,179	885,508	-	211	159	1.33	140	167	0.84	
<i>yfjE</i>	885,558	886,016	-	297	197	1.51	166	181	0.92	
<i>yfjD</i>	886,110	886,667	-	248	182	1.37	187	186	1.00	
<i>yfjC</i>	886,699	887,466	-	128	118	1.08	104	126	0.83	
<i>yfjB</i>	887,478	888,701	-	145	174	0.84	107	125	0.86	
<i>yfjA</i>	888,707	889,021	-	97	134	0.73	66	78	0.85	
<i>malA</i>	889,357	890,706	+	159	171	0.92	137	162	0.84	
<i>yfiA</i>	890,771	891,535	+	165	153	1.08	151	141	1.07	
<i>malP</i>	891,550	893,133	+	154	157	0.98	109	129	0.84	
<i>yfiB</i>	893,239	894,960	+	172	155	1.11	202	213	0.95	
<i>yfiC</i>	894,954	896,768	+	251	229	1.09	357	350	1.02	
<i>yfiD</i>	896,923	897,327	+	60	68	0.89	56	81	0.69	
<i>yfiE</i>	897,345	898,202	+	68	77	0.88	67	86	0.78	

<i>yfiF</i>	898,296	899,240	+	64	80	0.80	68	81	0.84
<i>yfiG</i>	899,415	900,863	+	76	78	0.96	61	71	0.87
<i>yfiH</i>	900,890	901,831	+	98	102	0.95	93	97	0.96
<i>yfiI</i>	901,841	903,022	+	90	97	0.93	84	100	0.84
<i>yfiJ</i>	903,146	904,348	+	216	209	1.04	234	268	0.87
<i>yfiK</i>	904,345	905,007	+	202	191	1.06	229	243	0.94
<i>yfiL</i>	905,151	906,086	+	98	90	1.09	63	75	0.84
<i>yfiM</i>	906,099	907,289	+	63	60	1.06	54	57	0.95
<i>yfiN</i>	907,303	908,460	+	120	131	0.91	86	99	0.86
<i>padR</i>	908,533	909,081	-	322	288	1.12	260	307	0.85
<i>lipB</i>	909,354	909,986	+	205	196	1.05	346	352	0.98
<i>yfiQ</i>	910,175	911,263	+	61	67	0.91	59	64	0.92
<i>yfiR</i>	911,299	911,916	-	188	163	1.15	247	262	0.94
<i>yfiS</i>	911,882	913,135	-	80	89	0.89	71	98	0.73
<i>yfiT</i>	913,259	913,795	+	585	555	1.05	670	650	1.03
<i>yfiU</i>	913,792	915,348	-	74	74	1.01	82	92	0.88
<i>yfiV</i>	915,459	915,941	-	144	156	0.92	163	194	0.84
<i>yfiW</i>	916,113	916,889	+	574	433	1.33	748	667	1.12
<i>yfiX</i>	916,864	918,684	+	426	305	1.40	773	634	1.22
<i>yfiY</i>	918,702	919,679	-	851	944	0.90	1165	1593	0.73
<i>yfiZ</i>	919,810	920,811	+	381	339	1.13	465	483	0.96
<i>yfhA</i>	920,808	921,839	+	496	465	1.07	559	612	0.91
<i>yfhB</i>	921,954	922,835	+	1792	1648	1.09	1875	1733	1.08
<i>yfhC</i>	922,923	923,507	+	1746	2147	0.81	1926	2208	0.87
<i>yfhD</i>	923,546	923,737	-	1099	751	1.46	512	297	1.72
<i>yfhF</i>	923,969	924,880	-	1359	916	1.48	657	255	2.57
<i>yfhG</i>	924,969	925,763	+	754	702	1.07	770	773	1.00
<i>yfhH</i>	925,765	926,079	+	381	393	0.97	508	543	0.93
<i>yfhI</i>	926,222	927,415	+	127	121	1.05	123	110	1.11
<i>sspK</i>	927,448	927,600	-	29	33	0.87	26	24	1.08
<i>yfhJ</i>	927,725	927,994	+	537	423	1.27	408	312	1.31
<i>yfhK</i>	928,139	928,657	+	6617	6734	0.98	3733	2474	1.51
<i>yfhL</i>	928,742	929,074	+	2896	2947	0.98	1316	972	1.35
<i>yfhM</i>	929,061	929,921	+	3175	3173	1.00	1567	1256	1.25
<i>csbB</i>	930,154	931,143	+	1201	1278	0.94	933	676	1.38
<i>yfhO</i>	931,340	933,799	+	603	442	1.36	384	356	1.08
<i>yfhP</i>	933,792	934,775	-	422	350	1.21	306	271	1.13
<i>yfhQ</i>	934,991	936,100	+	354	282	1.26	668	554	1.21
<i>yfhS</i>	936,108	936,332	-	25	30	0.86	24	29	0.81
<i>fabL</i>	936,414	937,166	+	1440	1145	1.26	1990	1666	1.19
<i>sspE</i>	937,235	937,489	+	756	622	1.21	1331	1113	1.20
<i>ygaB</i>	937,578	937,922	+	70	83	0.84	108	134	0.81
<i>ygaC</i>	938,066	938,596	+	696	553	1.26	763	752	1.02
<i>ygaD</i>	938,657	940,426	+	348	255	1.36	455	406	1.12
<i>ygaE</i>	940,503	941,564	-	385	339	1.14	211	166	1.27
<i>gsaB</i>	941,784	943,073	-	669	602	1.11	891	916	0.97
<i>ygaF</i>	943,226	943,699	+	288	246	1.17	472	555	0.85
<i>perR</i>	943,822	944,259	+	1795	1696	1.06	1550	1697	0.91
<i>ygzB</i>	944,294	944,647	-	850	811	1.05	575	578	0.99
<i>ygaA</i>	944,855	945,739	+	880	960	0.92	784	851	0.92
<i>spo0M</i>	952,707	953,483	-	1520	1589	0.96	2517	2684	0.94
<i>ygzA</i>	953,625	953,828	+	61	53	1.14	64	76	0.83
<i>ygaJ</i>	954,225	954,980	+	476	436	1.09	532	465	1.14
<i>thiC</i>	955,231	957,003	+	2522	3095	0.81	3039	3360	0.90
<i>ygaK</i>	957,041	958,144	-	40	45	0.89	35	40	0.87
<i>senS</i>	958,626	958,844	+	37	35	1.05	33	37	0.90
<i>katA</i>	958,871	960,322	-	1032	797	1.30	969	886	1.09
<i>ssuB</i>	960,686	961,498	+	49	55	0.88	41	53	0.76
<i>ssuA</i>	961,516	962,514	+	55	58	0.95	49	59	0.82
<i>ssuC</i>	962,511	963,341	+	70	73	0.96	53	64	0.83
<i>ssuD</i>	963,364	964,494	+	77	78	0.98	61	75	0.81
<i>ygaN</i>	964,598	965,134	+	153	150	1.02	140	153	0.92
<i>yhzA</i>	965,246	965,515	+	69	68	1.02	66	68	0.97
<i>ygaO</i>	965,533	966,006	-	312	294	1.06	320	268	1.20
<i>yhzB</i>	966,566	967,189	-	168	182	0.92	182	181	1.00
<i>yhbA</i>	967,125	968,432	+	87	82	1.07	87	90	0.97
<i>yhbB</i>	968,499	969,434	+	53	76	0.70	51	57	0.90
<i>cspR</i>	969,472	969,954	+	292	240	1.22	536	562	0.96
<i>yhbD</i>	970,004	970,720	+	89	92	0.97	114	139	0.82
<i>yhbE</i>	970,711	971,424	+	202	206	0.98	300	350	0.86
<i>yhbF</i>	971,436	972,143	+	229	228	1.01	313	346	0.91
<i>prkA</i>	972,493	974,388	+	123	127	0.97	113	123	0.93
<i>yhbH</i>	974,568	975,746	+	79	76	1.04	87	84	1.05
<i>yhbI</i>	975,906	976,370	+	201	128	1.57	184	141	1.30
<i>yhbJ</i>	976,406	977,071	+	501	319	1.57	477	286	1.67
<i>yhcA</i>	977,112	978,710	+	441	257	1.72	318	197	1.61
<i>yhcB</i>	978,733	979,263	+	447	271	1.65	287	195	1.48
<i>yhcC</i>	979,276	979,650	+	228	168	1.36	137	107	1.27
<i>yhcE</i>	979,810	980,571	+	82	87	0.95	134	149	0.90
<i>yhcF</i>	980,574	980,939	+	138	136	1.01	255	317	0.80
<i>yhcG</i>	980,941	981,639	+	171	153	1.11	312	368	0.85
<i>yhcH</i>	981,656	982,573	+	233	213	1.10	467	530	0.88
<i>yhcI</i>	982,566	983,507	+	213	204	1.05	384	391	0.98
<i>cspB</i>	983,599	983,802	-	6555	6481	1.01	4630	4690	0.99
<i>yhcJ</i>	984,238	985,029	+	523	442	1.18	568	851	0.67
<i>yhcK</i>	985,070	986,149	-	233	217	1.08	410	361	1.14
<i>yhcL</i>	986,322	987,713	+	215	179	1.20	341	420	0.81
<i>yhcM</i>	987,753	988,208	-	1896	1509	1.26	802	329	2.44
<i>yhcN</i>	988,358	988,927	+	53	69	0.76	83	83	1.00
<i>yhcO</i>	989,107	989,406	+	27	35	0.76	28	36	0.77
<i>yhcP</i>	989,397	990,014	+	52	52	1.00	41	53	0.76

Spo0A regulon

<i>yhcQ</i>	989,946	990,599	-	46	52	0.89	46	53	0.87	
<i>yhcR</i>	990,682	994,335	+	260	291	0.89	323	340	0.95	
<i>yhcS</i>	994,332	994,928	+	241	256	0.94	288	287	1.00	
<i>yhcT</i>	994,958	995,866	-	112	99	1.13	120	121	0.99	
<i>yhcU</i>	995,977	996,372	+	96	89	1.08	107	102	1.05	
<i>yhcV</i>	996,509	996,931	+	90	86	1.05	64	72	0.90	
<i>yhcW</i>	997,058	997,720	+	564	553	1.02	623	653	0.95	
<i>yhcX</i>	997,736	999,277	+	1068	973	1.10	1404	1318	1.07	
<i>yhcA</i>	999,697	1,001,049	+	428	517	0.83	396	543	0.73	
<i>glpP</i>	1,001,077	1,001,655	+	349	430	0.81	420	600	0.70	
<i>glpF</i>	1,001,834	1,002,658	+	124	151	0.82	184	240	0.77	AbrB regulon
<i>glpK</i>	1,002,677	1,004,167	+	1526	1300	1.17	949	706	1.34	AbrB regulon
<i>glpD</i>	1,004,308	1,005,975	+	766	709	1.08	313	380	0.82	AbrB regulon
<i>yhcB</i>	1,006,107	1,007,804	+	1895	1428	1.33	1907	1552	1.23	
<i>yhcY</i>	1,007,953	1,009,092	+	258	219	1.18	311	324	0.96	
<i>yhcZ</i>	1,009,089	1,009,733	+	346	285	1.21	453	452	1.00	
<i>yhdA</i>	1,009,730	1,010,254	+	251	211	1.19	359	333	1.08	
<i>yhdB</i>	1,010,269	1,010,511	-	27	32	0.85	29	37	0.78	
<i>yhdC</i>	1,010,712	1,011,035	+	51	46	1.11	62	59	1.06	
<i>lytF</i>	1,011,079	1,012,542	-	1626	2257	0.72	1464	2012	0.73	SigD regulon
<i>yhdE</i>	1,012,695	1,013,135	-	568	591	0.96	593	743	0.80	
<i>ygaB</i>	1,013,238	1,014,896	-	2036	1874	1.09	1168	687	1.70	
<i>spoVR</i>	1,014,927	1,016,333	+	61	66	0.93	60	65	0.92	
<i>phoA</i>	1,016,363	1,017,748	-	133	111	1.20	131	127	1.03	
<i>lytE</i>	1,018,280	1,019,311	+	1099	866	1.27	1316	1644	0.80	Spo0A regulon
<i>citR</i>	1,019,330	1,020,256	-	157	144	1.09	127	131	0.97	
<i>citA</i>	1,020,365	1,021,465	+	213	181	1.18	198	183	1.08	
<i>yhdF</i>	1,021,539	1,022,408	+	1812	1004	1.80	959	378	2.53	
<i>yhdG</i>	1,022,658	1,024,055	+	347	367	0.95	702	516	1.36	
<i>yhdH</i>	1,024,173	1,025,528	+	198	166	1.19	343	279	1.23	
<i>yhdI</i>	1,025,563	1,026,972	-	98	99	0.99	96	107	0.90	
<i>yhdJ</i>	1,027,082	1,027,510	+	254	264	0.96	225	225	1.00	
<i>yhdK</i>	1,027,541	1,027,831	-	63	69	0.91	129	130	0.99	
<i>yhdL</i>	1,027,819	1,028,895	-	579	552	1.05	627	660	0.95	
<i>sigM</i>	1,028,885	1,029,376	-	381	419	0.91	382	456	0.84	
<i>yhdN</i>	1,029,573	1,030,568	+	2381	2936	0.81	1418	1172	1.21	
<i>yhdO</i>	1,030,703	1,031,302	+	1251	1381	0.91	931	1139	0.82	
<i>yhdP</i>	1,031,371	1,032,705	-	741	689	1.07	1315	1312	1.00	
<i>yhdQ</i>	1,032,766	1,033,197	-	1049	975	1.08	1499	1503	1.00	
<i>yhdR</i>	1,033,354	1,034,535	+	404	391	1.03	801	922	0.87	
<i>yhdT</i>	1,034,862	1,036,247	+	1140	1441	0.79	1009	1297	0.78	
<i>yhdU</i>	1,036,261	1,036,617	-	107	82	1.30	154	149	1.04	
<i>yhdV</i>	1,036,614	1,037,009	-	296	243	1.22	310	316	0.98	
<i>yhdW</i>	1,036,996	1,037,727	-	440	370	1.19	559	541	1.03	
<i>yhdY</i>	1,038,217	1,039,332	+	170	134	1.27	166	141	1.18	
<i>yhdZ</i>	1,039,402	1,040,145	+	260	259	1.01	290	327	0.89	
<i>yheN</i>	1,040,169	1,041,017	-	800	724	1.10	971	1113	0.87	
<i>dat</i>	1,041,302	1,042,150	+	2411	2409	1.00	2524	2640	0.96	
<i>nhaC</i>	1,042,193	1,043,554	-	183	191	0.96	196	208	0.95	
<i>nhaX</i>	1,043,681	1,044,181	-	4101	5316	0.77	2120	1252	1.69	
<i>yheI</i>	1,044,626	1,046,383	+	612	878	0.70	371	438	0.85	
<i>yheH</i>	1,046,380	1,048,401	+	576	710	0.81	404	467	0.87	
<i>yheG</i>	1,048,450	1,049,070	-	275	364	0.76	431	541	0.80	
<i>sspB</i>	1,049,339	1,049,542	-	62	84	0.74	90	113	0.79	
<i>yheE</i>	1,049,751	1,049,969	-	86	98	0.88	81	82	0.98	
<i>yheD</i>	1,050,119	1,051,480	-	73	68	1.07	81	79	1.03	
<i>yheC</i>	1,051,470	1,052,561	-	46	53	0.86	48	51	0.95	
<i>yheB</i>	1,052,828	1,053,961	+	273	259	1.06	366	414	0.88	
<i>yheA</i>	1,054,054	1,054,407	+	784	776	1.01	723	654	1.11	
<i>yhaZ</i>	1,054,451	1,055,524	-	230	163	1.41	269	218	1.23	
<i>yhaY</i>	1,055,717	1,055,968	-	24	27	0.90	25	27	0.92	
<i>yhaX</i>	1,056,011	1,056,877	+	47	50	0.95	48	60	0.79	
<i>hemZ</i>	1,056,989	1,058,494	+	135	137	0.99	214	242	0.89	
<i>yhaU</i>	1,058,512	1,059,738	-	203	148	1.37	238	199	1.20	
<i>yhaT</i>	1,059,735	1,060,232	-	158	108	1.46	196	155	1.27	
<i>yhaS</i>	1,060,296	1,060,634	-	349	217	1.61	462	329	1.40	
<i>yhaR</i>	1,060,799	1,061,566	+	147	193	0.76	124	169	0.73	
<i>yhaQ</i>	1,061,899	1,062,795	+	548	444	1.23	1128	999	1.13	AbrB regulon
<i>yhaP</i>	1,062,788	1,064,047	+	386	328	1.18	966	841	1.15	AbrB regulon
<i>yhaO</i>	1,064,154	1,065,380	+	327	253	1.29	411	374	1.10	
<i>yhaN</i>	1,065,385	1,068,276	+	613	365	1.68	533	417	1.28	
<i>yhaM</i>	1,068,350	1,069,294	+	1363	1037	1.31	1248	1172	1.06	
<i>yhaL</i>	1,069,419	1,069,631	+	56	55	1.01	89	126	0.71	
<i>prsA</i>	1,069,672	1,070,550	-	2446	2105	1.16	3477	3263	1.07	
<i>yhaK</i>	1,071,350	1,071,604	-	65	88	0.74	61	65	0.93	
<i>yhaJ</i>	1,071,628	1,071,867	-	60	91	0.65	71	84	0.84	
<i>yhaI</i>	1,072,075	1,072,416	+	157	155	1.01	223	220	1.02	
<i>hpr</i>	1,072,413	1,073,024	-	1489	1382	1.08	1318	1431	0.92	
<i>yhaH</i>	1,073,202	1,073,558	-	1117	1147	0.97	1035	1213	0.85	
<i>yhaG</i>	1,073,951	1,074,469	-	936	883	1.06	1226	1178	1.04	
<i>serC</i>	1,074,594	1,075,673	-	2164	1961	1.10	1938	1964	0.99	
<i>hit</i>	1,075,820	1,076,257	-	913	985	0.93	1553	1608	0.97	
<i>ecsA</i>	1,076,745	1,077,488	+	367	317	1.16	420	452	0.93	
<i>ecsB</i>	1,077,481	1,078,707	+	475	341	1.40	643	651	0.99	
<i>ecsC</i>	1,078,727	1,079,437	+	406	309	1.32	563	571	0.99	
<i>yhaA</i>	1,079,455	1,080,645	-	1106	1136	0.97	1246	1292	0.96	
<i>yhfA</i>	1,080,718	1,082,109	-	74	73	1.02	66	74	0.89	
<i>yhgB</i>	1,082,175	1,082,489	-	124	120	1.03	101	118	0.86	
<i>yhgC</i>	1,082,534	1,083,034	-	1527	1750	0.87	1948	1862	1.05	
<i>pbpF</i>	1,083,156	1,085,300	+	265	216	1.23	336	288	1.17	
<i>hemE</i>	1,085,422	1,086,483	+	1473	972	1.52	956	727	1.31	

<i>hemH</i>	1,086,555	1,087,487	+	2701	1910	1.41	1758	1353	1.30	
<i>hemY</i>	1,087,502	1,088,914	+	1454	1019	1.43	856	686	1.25	
<i>yhgD</i>	1,089,060	1,089,635	+	424	396	1.07	658	465	1.41	
<i>yhgE</i>	1,089,706	1,092,033	+	437	394	1.11	781	572	1.36	
<i>fabHB</i>	1,092,075	1,093,052	-	2025	2019	1.00	1230	995	1.24	
<i>yhjC</i>	1,093,178	1,093,954	+	321	337	0.96	319	272	1.17	
<i>yhjD</i>	1,094,045	1,094,248	-	26	35	0.74	34	31	1.10	
<i>yhjE</i>	1,094,367	1,095,407	+	862	826	1.04	1057	931	1.14	
<i>yhjF</i>	1,095,420	1,095,827	+	690	736	0.94	954	833	1.15	
<i>gliT</i>	1,095,864	1,097,153	-	1442	1735	0.83	1361	1890	0.72	
<i>yhjI</i>	1,097,716	1,098,450	+	648	526	1.23	707	659	1.07	
<i>yhjJ</i>	1,098,463	1,099,458	+	1243	971	1.28	1414	1271	1.11	
<i>yhjK</i>	1,099,523	1,100,167	+	922	799	1.15	881	783	1.13	
<i>yhjL</i>	1,100,284	1,101,825	+	178	130	1.37	185	146	1.26	
<i>yhjM</i>	1,101,864	1,102,259	+	162	129	1.26	127	95	1.34	
<i>yhjN</i>	1,102,408	1,103,688	-	205	170	1.21	208	185	1.12	
<i>aprE</i>	1,103,727	1,104,872	-	264	342	0.77	206	279	0.74	
<i>yhjO</i>	1,105,307	1,105,756	+	129	123	1.05	167	188	0.89	
<i>yhjP</i>	1,105,828	1,106,820	+	509	439	1.16	656	569	1.15	
<i>yhjQ</i>	1,106,962	1,108,008	+	851	1176	0.72	730	1019	0.72	
<i>yhjR</i>	1,108,040	1,108,621	-	660	738	0.89	1397	1679	0.83	
<i>yhjS</i>	1,108,692	1,109,786	-	515	601	0.86	976	1213	0.81	
<i>yhjT</i>	1,109,783	1,111,222	-	498	565	0.88	894	1140	0.78	
<i>yhjU</i>	1,111,229	1,111,789	-	252	353	0.72	464	673	0.69	
<i>hemAT</i>	1,111,924	1,113,222	-	1801	1841	0.98	1597	1835	0.87	SigD regulon
<i>yhjW</i>	1,113,361	1,114,890	-	72	77	0.93	61	82	0.74	
<i>yhxC</i>	1,115,002	1,115,859	+	92	92	1.01	62	77	0.81	
<i>yhzC</i>	1,115,887	1,116,120	-	2466	3197	0.77	1279	1367	0.94	
<i>comK</i>	1,116,413	1,116,991	+	670	733	0.91	978	1204	0.81	Spo0A regulon
<i>yhxD</i>	1,117,038	1,117,937	-	3031	1635	1.85	1855	727	2.55	
<i>yhjA</i>	1,118,154	1,118,423	+	2440	2521	0.97	2907	2548	1.14	
<i>yhjB</i>	1,118,466	1,119,935	-	1000	890	1.12	1005	767	1.31	
<i>yhjC</i>	1,119,932	1,120,132	-	1731	1539	1.12	1856	1431	1.30	
<i>yhjD</i>	1,120,340	1,120,702	-	50	44	1.13	57	40	1.42	
<i>yhjE</i>	1,120,855	1,121,478	+	468	334	1.40	460	377	1.22	
<i>sipV</i>	1,121,480	1,121,986	+	416	305	1.36	455	388	1.17	
<i>yhjG</i>	1,122,166	1,123,665	+	203	225	0.90	179	231	0.78	
<i>yhjH</i>	1,123,742	1,124,269	+	167	163	1.03	177	196	0.91	
<i>glcP</i>	1,124,427	1,125,632	-	46	45	1.01	52	56	0.93	
<i>yhjI</i>	1,125,704	1,126,756	-	90	82	1.10	100	100	1.00	
<i>yhjK</i>	1,126,759	1,127,619	-	71	69	1.03	83	91	0.91	
<i>yhjL</i>	1,127,591	1,128,916	-	46	50	0.91	48	57	0.84	
<i>yhjM</i>	1,129,020	1,130,009	+	360	324	1.11	456	562	0.81	AbrB regulon
<i>yhjN</i>	1,130,223	1,131,377	-	133	136	0.98	162	170	0.95	
<i>yhjO</i>	1,131,484	1,132,689	-	76	75	1.02	49	57	0.85	
<i>yhjP</i>	1,132,803	1,134,530	+	144	119	1.21	158	149	1.06	
<i>yhjQ</i>	1,134,560	1,134,886	-	77	79	0.97	55	47	1.18	
<i>yhjR</i>	1,135,004	1,135,441	-	41	41	1.00	35	39	0.89	
<i>addB</i>	1,135,625	1,139,125	+	548	437	1.25	654	603	1.08	
<i>addA</i>	1,139,112	1,142,810	+	726	652	1.11	1094	955	1.15	
<i>sbcD</i>	1,142,882	1,144,057	+	508	486	1.04	770	659	1.17	
<i>yirY</i>	1,144,054	1,147,446	+	718	692	1.04	1213	1028	1.18	
<i>yisB</i>	1,147,460	1,147,762	+	521	527	0.99	1007	840	1.20	
<i>gerPF</i>	1,147,799	1,148,026	-	35	33	1.07	45	39	1.15	
<i>gerPE</i>	1,148,049	1,148,450	-	47	57	0.82	43	49	0.88	
<i>gerPD</i>	1,148,450	1,148,626	-	55	55	1.00	57	61	0.94	
<i>gerPC</i>	1,148,623	1,149,240	-	105	113	0.93	87	98	0.89	
<i>gerPB</i>	1,149,263	1,149,505	-	37	40	0.93	32	35	0.89	
<i>gerPA</i>	1,149,511	1,149,732	-	45	49	0.91	44	54	0.81	
<i>yisI</i>	1,150,155	1,150,325	-	52	46	1.15	64	77	0.83	
<i>yisJ</i>	1,150,471	1,151,394	-	62	62	1.00	39	49	0.80	
<i>yisK</i>	1,151,549	1,152,454	+	652	862	0.76	752	984	0.76	
<i>yisL</i>	1,152,570	1,152,926	+	345	434	0.80	446	554	0.81	
<i>wprA</i>	1,153,094	1,155,778	+	4000	4478	0.89	4757	4908	0.97	
<i>yisN</i>	1,155,809	1,156,396	-	43	41	1.05	38	42	0.91	
<i>asnO</i>	1,156,542	1,158,386	+	75	77	0.97	61	76	0.80	
<i>yizA</i>	1,158,516	1,158,995	-	82	95	0.86	67	78	0.86	
<i>yisP</i>	1,159,227	1,160,051	+	635	431	1.47	350	234	1.49	
<i>yisQ</i>	1,160,081	1,161,448	-	52	59	0.88	45	52	0.87	
<i>yisR</i>	1,161,572	1,162,435	+	425	264	1.61	245	231	1.06	
<i>degA</i>	1,162,453	1,163,466	+	837	539	1.55	531	488	1.09	
<i>yisS</i>	1,163,675	1,164,703	+	89	86	1.04	99	108	0.92	
<i>yisT</i>	1,164,754	1,165,263	-	726	803	0.90	517	474	1.09	
<i>yisU</i>	1,165,313	1,165,975	-	64	64	0.99	53	63	0.84	
<i>yisV</i>	1,166,042	1,167,496	+	159	153	1.04	151	168	0.90	
<i>yisX</i>	1,167,504	1,168,142	-	248	272	0.91	283	294	0.96	
<i>yisY</i>	1,168,348	1,169,154	+	133	131	1.01	169	167	1.02	
<i>yisZ</i>	1,169,182	1,169,781	-	53	56	0.94	47	54	0.87	
<i>yitA</i>	1,169,778	1,170,947	-	91	96	0.95	82	101	0.82	
<i>yitB</i>	1,171,060	1,171,770	-	150	151	0.99	105	120	0.87	
<i>yitC</i>	1,171,955	1,172,641	+	81	87	0.94	71	75	0.95	
<i>yitD</i>	1,172,638	1,173,396	+	67	65	1.03	53	63	0.84	
<i>yitE</i>	1,173,441	1,174,070	-	39	42	0.93	33	39	0.83	
<i>yitF</i>	1,174,166	1,175,281	-	72	77	0.93	53	63	0.84	
<i>yitG</i>	1,175,290	1,176,558	-	76	81	0.94	68	81	0.84	
<i>yitH</i>	1,176,670	1,177,518	-	310	325	0.95	351	419	0.84	
<i>yitI</i>	1,177,523	1,177,987	-	300	308	0.97	336	462	0.73	
<i>yitJ</i>	1,178,062	1,179,900	-	458	509	0.90	814	1015	0.80	
<i>yitK</i>	1,180,214	1,180,705	-	671	663	1.01	617	702	0.88	
<i>yitL</i>	1,180,804	1,181,700	+	436	394	1.10	446	472	0.94	
<i>yitM</i>	1,181,753	1,182,337	-	456	478	0.95	308	373	0.83	

<i>yitN</i>	1,182,334	1,182,702	-	65	70	0.92	60	67	0.89	
<i>yitO</i>	1,182,834	1,183,046	-	32	35	0.92	44	42	1.06	
<i>yitP</i>	1,183,247	1,183,783	-	50	57	0.88	57	66	0.87	
<i>yitQ</i>	1,184,155	1,184,892	+	219	186	1.18	201	237	0.85	
<i>yitR</i>	1,184,912	1,185,205	+	147	117	1.26	133	145	0.92	
<i>nprB</i>	1,185,341	1,186,957	+	105	107	0.98	104	117	0.89	
<i>yitS</i>	1,187,004	1,187,855	-	605	499	1.21	540	494	1.09	
<i>yitT</i>	1,187,993	1,188,835	+	2593	1646	1.58	1282	531	2.41	
<i>ipi</i>	1,188,950	1,189,309	+	1172	737	1.59	319	173	1.85	
<i>yitU</i>	1,189,794	1,190,606	-	479	429	1.12	551	641	0.86	
<i>yitV</i>	1,190,727	1,191,494	+	462	375	1.23	498	533	0.93	
<i>yitW</i>	1,191,558	1,191,866	+	2067	1861	1.11	2145	1992	1.08	
<i>yitY</i>	1,192,162	1,193,592	+	162	159	1.02	320	387	0.83	
<i>yitZ</i>	1,193,637	1,194,131	+	80	80	0.99	166	191	0.87	
<i>argC</i>	1,194,338	1,195,378	+	194	187	1.04	831	1379	0.60	
<i>argI</i>	1,195,398	1,196,618	+	337	435	0.78	1472	2007	0.73	
<i>argB</i>	1,196,633	1,197,409	+	330	446	0.74	1181	1601	0.74	
<i>argD</i>	1,197,406	1,198,563	+	406	511	0.79	1064	1417	0.75	
<i>carA</i>	1,198,634	1,199,695	+	628	779	0.81	1348	1742	0.77	
<i>carB</i>	1,199,688	1,202,780	+	993	1194	0.83	1461	1833	0.80	
<i>argF</i>	1,202,768	1,203,727	+	1246	1543	0.81	1510	1842	0.82	
<i>yjzC</i>	1,203,813	1,203,992	+	40	59	0.68	40	47	0.84	
<i>yjzD</i>	1,204,038	1,204,223	-	568	679	0.84	634	684	0.93	
<i>yjaU</i>	1,204,472	1,205,206	+	86	80	1.08	92	104	0.88	
<i>yjaV</i>	1,205,288	1,205,695	+	47	48	0.99	47	53	0.89	
<i>med</i>	1,205,937	1,206,890	+	873	828	1.05	616	570	1.08	Spo0A regulon
<i>comZ</i>	1,206,905	1,207,096	+	174	250	0.70	295	229	1.29	
<i>yjzB</i>	1,207,126	1,207,365	-	89	104	0.86	98	93	1.05	
<i>fabHA</i>	1,207,530	1,208,468	+	2298	2413	0.95	1836	2241	0.82	
<i>fabF</i>	1,208,491	1,209,732	+	3099	3127	0.99	3052	3168	0.96	
<i>yjaZ</i>	1,209,808	1,210,593	+	77	86	0.89	66	70	0.95	
<i>appD</i>	1,210,785	1,211,771	+	913	1199	0.76	787	981	0.80	
<i>appF</i>	1,211,768	1,212,757	+	1358	1488	0.91	1157	1483	0.78	
<i>appA</i>	1,212,845	1,214,476	+	3890	4672	0.83	3033	3577	0.85	
<i>appB</i>	1,214,552	1,215,505	+	1871	2427	0.77	1473	1961	0.75	
<i>appC</i>	1,215,522	1,216,433	+	1658	2188	0.76	1280	1706	0.75	
<i>yjbA</i>	1,216,639	1,217,391	+	127	147	0.86	159	254	0.63	
<i>trpS</i>	1,217,426	1,218,418	-	892	889	1.00	1004	1050	0.96	
<i>oppA</i>	1,219,162	1,220,799	+	2803	3150	0.89	1876	2102	0.89	
<i>oppB</i>	1,220,907	1,221,842	+	650	564	1.15	399	454	0.88	
<i>oppC</i>	1,221,846	1,222,763	+	859	759	1.13	603	643	0.94	
<i>oppD</i>	1,222,768	1,223,844	+	1185	1138	1.04	895	986	0.91	
<i>oppF</i>	1,223,846	1,224,763	+	1105	1129	0.98	930	977	0.95	
<i>yjbB</i>	1,224,870	1,226,087	+	83	78	1.06	119	108	1.10	
<i>yjbC</i>	1,226,251	1,226,829	+	1907	2025	0.94	1798	1425	1.26	
<i>yjbD</i>	1,227,010	1,227,405	+	1956	2062	0.95	1263	1250	1.01	
<i>yjbE</i>	1,227,448	1,228,104	-	49	54	0.91	47	53	0.89	
<i>mecA</i>	1,228,381	1,229,037	+	1258	1414	0.89	916	780	1.17	
<i>yjbF</i>	1,229,228	1,230,349	+	157	136	1.15	186	171	1.09	
<i>yjbG</i>	1,230,579	1,232,408	+	1822	1847	0.99	1940	1761	1.10	
<i>yjbH</i>	1,232,926	1,233,753	+	369	341	1.08	396	425	0.93	
<i>yjbI</i>	1,233,822	1,234,220	-	500	426	1.17	347	439	0.79	
<i>yjbJ</i>	1,234,475	1,235,020	-	1142	1787	0.64	1024	1300	0.79	SigD regulon
<i>yjbK</i>	1,235,224	1,235,796	-	330	301	1.10	264	248	1.06	
<i>yjbL</i>	1,235,921	1,236,289	+	550	514	1.07	748	869	0.86	
<i>yjbM</i>	1,236,318	1,236,953	+	774	736	1.05	933	977	0.96	
<i>yjbN</i>	1,236,972	1,237,772	+	771	727	1.06	850	925	0.92	
<i>yjbO</i>	1,237,835	1,238,686	+	704	672	1.05	770	822	0.94	
<i>yjbP</i>	1,238,699	1,239,433	-	94	96	0.98	126	127	0.99	
<i>yjbQ</i>	1,239,668	1,241,512	+	94	103	0.91	198	220	0.90	
<i>tenA</i>	1,241,761	1,242,471	+	1244	1497	0.83	1884	2355	0.80	
<i>tenI</i>	1,242,446	1,243,063	+	1933	2392	0.81	3172	3485	0.91	
<i>goxB</i>	1,243,047	1,244,156	+	2033	2397	0.85	2823	3171	0.89	
<i>thiS</i>	1,244,156	1,244,356	+	2195	2715	0.81	3417	3707	0.92	
<i>thiG</i>	1,244,353	1,245,123	+	2250	2823	0.80	2929	3182	0.92	
<i>thiF</i>	1,245,120	1,246,130	+	2310	2818	0.82	2915	3182	0.92	
<i>yjbV</i>	1,246,149	1,246,964	+	2295	2860	0.80	3034	3252	0.93	
<i>fabI</i>	1,247,100	1,247,876	+	2987	3692	0.81	1850	2550	0.73	
<i>yjbX</i>	1,247,977	1,248,660	+	159	180	0.89	122	159	0.77	
<i>cotZ</i>	1,248,754	1,249,200	-	48	62	0.76	45	56	0.80	
<i>cotY</i>	1,249,328	1,249,816	-	33	57	0.58	31	38	0.82	
<i>cotX</i>	1,249,968	1,250,486	-	42	83	0.51	40	45	0.88	
<i>cotW</i>	1,250,585	1,250,902	-	74	103	0.71	57	77	0.75	
<i>cotV</i>	1,250,943	1,251,329	-	39	62	0.63	33	38	0.87	
<i>yjcA</i>	1,251,489	1,251,845	+	71	66	1.07	68	74	0.91	
<i>yjcB</i>	1,252,170	1,252,385	+	40	46	0.87	47	41	1.15	
<i>yjcC</i>	1,252,649	1,252,951	+	29	34	0.85	24	31	0.77	
<i>yjcD</i>	1,253,025	1,253,304	-	132	111	1.18	198	189	1.05	
<i>yjcE</i>	1,253,385	1,253,687	-	20	28	0.71	29	49	0.60	
<i>yjcF</i>	1,253,748	1,256,170	-	1664	2210	0.75	2231	2865	0.78	
<i>yjcG</i>	1,256,174	1,256,689	-	2005	2615	0.77	2121	3109	0.68	
<i>yjcH</i>	1,256,726	1,257,448	-	1648	2106	0.78	1504	2365	0.64	
<i>yjcI</i>	1,257,804	1,258,925	+	575	775	0.74	1041	1663	0.63	
<i>yjcJ</i>	1,258,918	1,260,090	+	588	840	0.70	874	1268	0.69	
<i>yjcK</i>	1,260,123	1,260,668	-	172	235	0.73	167	212	0.79	
<i>yjcL</i>	1,260,738	1,261,928	-	206	280	0.74	179	228	0.79	
<i>yjcM</i>	1,263,014	1,264,243	-	1082	1054	1.03	1521	1923	0.79	AbrB regulon
<i>yjcN</i>	1,264,369	1,264,689	+	1254	1495	0.84	1132	1456	0.78	
<i>yjcO</i>	1,265,199	1,265,660	+	280	337	0.83	365	402	0.91	
<i>yjcP</i>	1,265,926	1,266,429	+	935	940	0.99	1116	1129	0.99	Spo0A and SigD regulon
<i>yjcQ</i>	1,266,441	1,266,725	+	352	347	1.01	523	534	0.98	

<i>yjcR</i>	1,266,886	1,267,413	+	35	37	0.93	35	37	0.96	
<i>yjcS</i>	1,267,587	1,267,904	+	678	631	1.07	680	734	0.93	
<i>yjdA</i>	1,268,141	1,268,896	+	695	661	1.05	650	584	1.11	
<i>yjdB</i>	1,269,045	1,269,392	-	244	180	1.36	173	147	1.17	AbrB regulon
<i>manR</i>	1,269,943	1,271,889	+	59	55	1.08	60	67	0.89	
<i>manP</i>	1,272,037	1,273,806	+	66	71	0.93	57	72	0.79	
<i>manA</i>	1,274,005	1,274,952	+	42	54	0.78	44	49	0.89	
<i>yjdF</i>	1,275,122	1,275,604	+	316	280	1.13	529	469	1.13	
<i>yjdG</i>	1,275,650	1,276,156	-	376	369	1.02	339	403	0.84	AbrB regulon
<i>yjdH</i>	1,276,388	1,276,792	-	67	71	0.95	59	79	0.74	
<i>yjdI</i>	1,276,997	1,277,476	+	421	398	1.06	409	385	1.06	
<i>yjdJ</i>	1,277,876	1,278,205	-	145	131	1.11	154	165	0.93	
<i>ctaO</i>	1,278,825	1,279,814	-	345	264	1.31	226	326	0.69	AbrB regulon
<i>cotT</i>	1,279,937	1,280,260	-	62	113	0.55	42	56	0.75	
<i>yjeA</i>	1,280,439	1,281,842	+	268	460	0.58	135	174	0.78	
<i>yjfA</i>	1,281,882	1,282,355	-	745	688	1.08	480	405	1.19	
<i>yjfB</i>	1,282,480	1,282,647	-	4138	3845	1.08	3276	2517	1.30	SigD regulon
<i>yjfC</i>	1,282,774	1,283,703	+	53	58	0.92	46	57	0.81	
<i>yjgA</i>	1,283,681	1,284,079	-	132	111	1.19	96	95	1.00	
<i>yjgB</i>	1,284,180	1,284,755	-	398	302	1.32	236	108	2.19	
<i>yjgC</i>	1,284,901	1,287,858	+	3421	2017	1.70	1781	680	2.62	
<i>yjgD</i>	1,287,851	1,288,411	+	3913	2194	1.78	2281	874	2.61	
<i>yjhA</i>	1,288,608	1,289,249	+	280	237	1.18	494	466	1.06	
<i>yjhB</i>	1,289,442	1,289,954	+	150	134	1.12	170	165	1.03	
<i>yjiA</i>	1,289,985	1,290,263	-	53	62	0.86	73	93	0.79	
<i>yjiB</i>	1,290,654	1,291,844	+	259	243	1.07	347	332	1.05	
<i>yjiC</i>	1,291,867	1,293,045	+	240	216	1.11	421	362	1.16	
<i>yjiA</i>	1,293,448	1,294,260	+	443	388	1.14	597	615	0.97	
<i>yjkA</i>	1,294,306	1,295,058	-	109	100	1.08	150	141	1.07	
<i>yjkB</i>	1,295,058	1,295,810	-	100	99	1.01	127	142	0.90	
<i>yjIA</i>	1,295,930	1,296,904	-	226	172	1.32	221	214	1.03	
<i>yjIB</i>	1,297,036	1,297,533	+	1269	720	1.76	685	277	2.47	
<i>yjIC</i>	1,297,922	1,298,344	+	3338	3488	0.96	2686	3036	0.88	
<i>yjID</i>	1,298,384	1,299,562	+	3306	3462	0.96	3096	3459	0.90	
<i>uxaC</i>	1,299,760	1,301,181	+	62	67	0.92	45	57	0.79	
<i>yjmB</i>	1,301,249	1,302,628	+	69	73	0.94	61	61	1.00	
<i>yjmC</i>	1,302,733	1,303,746	+	79	82	0.97	61	93	0.66	
<i>yjmD</i>	1,303,752	1,304,771	+	123	126	0.97	93	113	0.82	
<i>uxuA</i>	1,304,796	1,305,875	+	78	80	0.98	62	75	0.83	
<i>yjmF</i>	1,305,872	1,306,708	+	109	116	0.95	99	116	0.85	
<i>exuT</i>	1,306,756	1,308,024	+	65	67	0.97	53	64	0.83	
<i>exuR</i>	1,308,112	1,309,113	+	256	268	0.95	255	325	0.79	
<i>uxaB</i>	1,309,190	1,310,632	+	71	78	0.91	54	62	0.87	
<i>uxaA</i>	1,310,629	1,312,122	+	57	60	0.94	50	56	0.90	
<i>yjnA</i>	1,312,161	1,312,925	-	241	151	1.59	289	407	0.71	
<i>yjoA</i>	1,313,150	1,313,614	-	3024	2590	1.17	2351	1872	1.26	
<i>yjoB</i>	1,313,763	1,315,034	+	264	221	1.20	486	542	0.90	
<i>rapA</i>	1,315,179	1,316,315	+	4045	5313	0.76	2750	3115	0.88	Spo0A regulon
<i>yjpA</i>	1,316,470	1,316,712	-	150	134	1.12	297	249	1.19	
<i>xlyB</i>	1,316,849	1,317,802	+	972	417	2.33	1609	774	2.08	
<i>yjqA</i>	1,317,839	1,318,216	-	316	290	1.09	614	525	1.17	
<i>yjqB</i>	1,318,322	1,318,924	+	224	161	1.40	306	217	1.41	
<i>yjqC</i>	1,319,001	1,319,837	+	197	140	1.40	302	226	1.34	
<i>xkdA</i>	1,319,881	1,320,477	-	240	130	1.84	198	121	1.64	
<i>xre</i>	1,320,640	1,320,981	-	366	351	1.04	508	586	0.87	
<i>xkdB</i>	1,321,325	1,322,158	+	293	144	2.03	379	189	2.01	
<i>xkdC</i>	1,322,058	1,322,858	+	394	185	2.13	594	300	1.98	
<i>xkdD</i>	1,323,110	1,323,460	+	282	112	2.52	414	201	2.05	
<i>xtrA</i>	1,323,457	1,323,663	+	445	252	1.76	787	451	1.75	
<i>xpf</i>	1,323,779	1,324,288	+	349	141	2.48	646	293	2.20	
<i>xtmA</i>	1,324,404	1,325,201	+	1270	392	3.24	1842	936	1.97	
<i>xtmB</i>	1,325,198	1,326,499	+	1057	316	3.34	1451	757	1.92	
<i>xkdE</i>	1,326,503	1,327,990	+	1029	373	2.76	1567	847	1.85	
<i>xkdF</i>	1,328,010	1,328,837	+	2826	1221	2.31	3944	2177	1.81	
<i>xkdG</i>	1,328,863	1,329,798	+	2494	1054	2.37	3731	1937	1.93	
<i>xkdH</i>	1,330,202	1,330,558	+	1861	725	2.57	2659	1223	2.17	
<i>xkdI</i>	1,330,555	1,331,040	+	2446	964	2.54	3291	1606	2.05	
<i>xkdJ</i>	1,331,053	1,331,493	+	2196	965	2.28	3451	1728	2.00	
<i>xkdK</i>	1,331,712	1,333,106	+	2666	1062	2.51	3820	2018	1.89	
<i>xkdM</i>	1,333,113	1,333,556	+	1978	753	2.63	2966	1608	1.84	
<i>xkdN</i>	1,333,648	1,334,274	+	1309	430	3.05	2331	1320	1.77	
<i>xkdO</i>	1,334,279	1,338,277	+	1020	352	2.90	1791	896	2.00	
<i>xkdP</i>	1,338,222	1,338,929	+	1141	364	3.13	2147	1060	2.02	
<i>xkdQ</i>	1,338,945	1,339,922	+	1269	424	2.99	2106	980	2.15	
<i>xkdR</i>	1,339,922	1,340,188	+	1096	340	3.23	1740	763	2.28	
<i>xkdS</i>	1,340,245	1,340,670	+	1430	521	2.75	2583	1194	2.16	
<i>xkdT</i>	1,340,663	1,341,709	+	1143	415	2.76	2084	984	2.12	
<i>xkdU</i>	1,341,693	1,342,271	+	916	323	2.84	1521	710	2.14	
<i>xkdV</i>	1,342,542	1,344,605	+	1279	438	2.92	2252	1119	2.01	
<i>xkdW</i>	1,344,617	1,344,946	+	1150	366	3.14	1955	918	2.13	
<i>xkdX</i>	1,344,943	1,345,107	+	523	155	3.37	807	315	2.56	
<i>xepA</i>	1,345,151	1,345,990	+	1288	481	2.68	2211	993	2.23	
<i>xhIA</i>	1,346,043	1,346,312	+	2350	947	2.48	4220	2033	2.08	
<i>xhIB</i>	1,346,325	1,346,588	+	2317	814	2.85	3374	1847	1.83	
<i>xlyA</i>	1,346,601	1,347,494	+	1745	636	2.74	3046	1445	2.11	
<i>spoIISB</i>	1,347,754	1,347,924	-	370	312	1.19	417	397	1.05	
<i>spoIISA</i>	1,347,924	1,348,670	-	518	378	1.37	466	477	0.98	
<i>pit</i>	1,348,794	1,349,780	-	1097	891	1.23	1196	1194	1.00	
<i>ykaA</i>	1,349,793	1,350,410	-	1207	1129	1.07	1174	1188	0.99	Spo0A regulon
<i>ykbA</i>	1,350,686	1,352,002	-	150	135	1.11	104	131	0.79	
<i>ykeA</i>	1,352,391	1,353,341	+	183	231	0.79	276	382	0.72	

<i>ykcB</i>	1,353,592	1,355,742	+	97	99	0.98	80	91	0.87
<i>ykcC</i>	1,355,754	1,356,725	+	49	53	0.93	51	57	0.90
<i>htrA</i>	1,357,243	1,358,592	-	646	709	0.91	2184	2919	0.75
<i>proG</i>	1,358,761	1,359,579	-	317	282	1.12	449	402	1.12
<i>dppA</i>	1,359,708	1,360,532	+	1231	1484	0.83	1010	1452	0.70
<i>dppB</i>	1,360,549	1,361,475	+	879	962	0.91	444	708	0.63
<i>dppC</i>	1,361,481	1,362,443	+	829	922	0.90	429	724	0.59
<i>dppD</i>	1,362,448	1,363,455	+	1045	1231	0.85	594	948	0.63
<i>dppE</i>	1,363,458	1,365,107	+	1101	1361	0.81	739	1166	0.63
<i>ykfA</i>	1,365,448	1,366,152	+	450	543	0.83	339	526	0.65
<i>ykfB</i>	1,366,149	1,367,249	+	435	547	0.80	401	555	0.72
<i>ykfC</i>	1,367,246	1,368,136	+	403	510	0.79	432	624	0.69
<i>ykfD</i>	1,368,149	1,369,132	+	393	523	0.75	416	595	0.70
<i>ykgB</i>	1,369,180	1,370,229	-	3305	3016	1.10	2350	2038	1.15
<i>ykgA</i>	1,370,389	1,371,180	-	2890	2457	1.18	1008	356	2.83
<i>ykhA</i>	1,371,340	1,371,858	+	477	387	1.23	549	497	1.10
<i>hmp</i>	1,372,097	1,373,296	+	978	200	4.89	116	68	1.70
<i>yzkH</i>	1,373,373	1,373,597	-	33	36	0.92	28	29	0.95
<i>ykjA</i>	1,373,742	1,374,473	+	100	71	1.41	44	51	0.87
<i>ykkA</i>	1,374,565	1,375,092	+	233	205	1.14	269	217	1.24
<i>ykkB</i>	1,375,082	1,375,600	+	202	183	1.10	243	198	1.23
<i>ykkC</i>	1,375,823	1,376,161	+	198	174	1.14	173	178	0.97
<i>ykkD</i>	1,376,161	1,376,478	+	116	108	1.07	129	117	1.10
<i>ykkE</i>	1,376,549	1,377,451	+	424	433	0.98	504	521	0.97
<i>proB</i>	1,377,802	1,378,899	+	457	480	0.95	803	921	0.87
<i>proA</i>	1,378,911	1,380,158	+	812	876	0.93	1131	1284	0.88
<i>ykIA</i>	1,380,284	1,380,709	+	179	367	0.49	283	546	0.52
<i>ykmA</i>	1,380,740	1,381,183	-	255	231	1.10	260	232	1.12
<i>yzkA</i>	1,381,326	1,381,736	+	6778	6620	1.02	4007	2451	1.63
<i>guaD</i>	1,381,983	1,382,453	-	87	107	0.81	144	179	0.80
<i>metE</i>	1,382,626	1,384,914	-	2119	2394	0.89	3556	3838	0.93
<i>ispA</i>	1,385,330	1,386,289	-	172	238	0.72	131	148	0.89
<i>ykoB</i>	1,386,512	1,387,345	+	757	794	0.95	1211	1217	1.00
<i>ykoC</i>	1,387,376	1,388,140	-	1336	1268	1.05	1632	1425	1.14
<i>ykoD</i>	1,388,287	1,389,759	-	1046	981	1.07	1284	1151	1.12
<i>ykoE</i>	1,389,746	1,390,345	-	1280	1264	1.01	1585	1398	1.13
<i>ykoF</i>	1,390,347	1,390,949	-	1311	1330	0.99	1636	1436	1.14
<i>ykoG</i>	1,391,260	1,391,946	+	168	157	1.07	184	203	0.90
<i>ykoH</i>	1,391,950	1,393,314	+	144	123	1.17	216	225	0.96
<i>ykoI</i>	1,393,311	1,393,991	+	125	102	1.22	225	222	1.01
<i>ykoJ</i>	1,394,083	1,394,595	+	790	1399	0.56	1814	2849	0.64
<i>yzkD</i>	1,394,678	1,394,815	+	18	29	0.62	45	49	0.91
<i>ykoK</i>	1,395,321	1,396,676	+	599	587	1.02	696	689	1.01
<i>tnrA</i>	1,396,719	1,397,051	-	213	264	0.81	169	194	0.87
<i>yzkB</i>	1,397,246	1,397,401	+	55	52	1.05	69	55	1.27
<i>ykoL</i>	1,397,489	1,397,671	+	22	25	0.89	23	27	0.85
<i>ykoM</i>	1,397,804	1,398,268	+	470	538	0.87	638	831	0.77
<i>ykoN</i>	1,398,283	1,399,404	-	59	61	0.97	52	56	0.93
<i>ykoP</i>	1,399,496	1,400,047	+	33	37	0.88	34	36	0.94
<i>ykoQ</i>	1,400,075	1,400,887	-	54	55	0.97	48	56	0.85
<i>ykoS</i>	1,401,080	1,402,774	+	67	63	1.06	56	62	0.90
<i>ykoT</i>	1,402,787	1,403,800	+	61	54	1.13	54	50	1.08
<i>ykoU</i>	1,403,826	1,405,661	-	100	86	1.16	89	107	0.83
<i>ykoV</i>	1,405,665	1,406,600	-	121	99	1.22	87	100	0.87
<i>ykoW</i>	1,406,637	1,408,886	-	329	358	0.92	255	350	0.73
<i>ykoX</i>	1,409,220	1,409,885	+	143	142	1.01	231	267	0.86
<i>ykoY</i>	1,409,962	1,410,936	+	143	158	0.91	159	201	0.79
<i>sigI</i>	1,411,200	1,411,955	+	287	210	1.37	304	270	1.13
<i>ykrI</i>	1,411,952	1,413,097	+	242	177	1.37	485	459	1.06
<i>sspD</i>	1,413,108	1,413,302	-	87	117	0.74	87	94	0.93
<i>ykrK</i>	1,413,433	1,414,134	-	184	230	0.80	232	319	0.73
<i>ykrL</i>	1,414,305	1,415,201	+	585	500	1.17	683	634	1.08
<i>ykrM</i>	1,415,375	1,416,724	+	81	82	0.98	122	114	1.07
<i>ykrP</i>	1,417,246	1,418,268	-	180	109	1.65	187	113	1.66
<i>kinE</i>	1,418,521	1,420,737	+	314	297	1.06	432	377	1.14
<i>ogt</i>	1,420,734	1,421,231	+	487	443	1.10	588	479	1.23
<i>ykrS</i>	1,421,480	1,422,541	-	4249	5045	0.84	5110	5417	0.94
<i>ykrT</i>	1,422,549	1,423,748	-	4047	4710	0.86	4493	5023	0.89
<i>ykrU</i>	1,424,075	1,424,854	-	477	540	0.88	718	849	0.85
<i>ykrV</i>	1,424,949	1,426,145	+	842	1005	0.84	1177	1304	0.90
<i>ykrW</i>	1,426,342	1,427,586	+	528	636	0.83	756	1081	0.70
<i>ykrX</i>	1,427,583	1,428,290	+	1100	1215	0.91	1714	2231	0.77
<i>ykrY</i>	1,428,248	1,428,877	+	1622	1794	0.90	2224	2853	0.78
<i>ykrZ</i>	1,428,892	1,429,428	+	1302	1600	0.81	1876	2320	0.81
<i>ykvA</i>	1,429,469	1,429,789	-	523	541	0.97	420	434	0.97
<i>spoOE</i>	1,429,992	1,430,249	+	1618	1898	0.85	1240	1093	1.13
<i>eag</i>	1,430,335	1,430,766	+	186	196	0.95	142	128	1.11
<i>kinD</i>	1,430,794	1,432,314	-	672	524	1.28	622	591	1.05
<i>ykvE</i>	1,432,507	1,432,944	+	344	229	1.50	377	284	1.33
<i>motB</i>	1,432,984	1,433,769	-	2660	3026	0.88	1536	1793	0.86
<i>motA</i>	1,433,741	1,434,553	-	2757	3447	0.80	1657	1826	0.91
<i>clpE</i>	1,434,936	1,437,035	-	181	165	1.10	132	127	1.03
<i>ykvI</i>	1,437,400	1,438,443	+	80	78	1.03	66	71	0.93
<i>ykvJ</i>	1,438,756	1,439,415	+	126	126	1.00	231	252	0.91
<i>ykvK</i>	1,439,408	1,439,857	+	171	165	1.04	310	318	0.98
<i>ykvL</i>	1,439,850	1,440,581	+	180	171	1.06	306	314	0.97
<i>ykvM</i>	1,440,599	1,441,096	+	290	278	1.04	460	429	1.07
<i>ykvN</i>	1,441,655	1,442,011	-	122	110	1.11	141	182	0.78
<i>ykvO</i>	1,442,180	1,442,926	+	48	51	0.93	61	59	1.03
<i>ykvP</i>	1,443,407	1,444,606	+	66	54	1.24	57	45	1.27
<i>ykvQ</i>	1,444,946	1,445,644	+	76	57	1.32	70	67	1.06

AbrB regulon

SigD regulon

<i>ykvR</i>	1,446,559	1,446,849	+	68	67	1.02	69	77	0.89	
<i>ykvS</i>	1,446,970	1,447,401	-	212	186	1.14	295	389	0.76	
<i>ykvT</i>	1,447,814	1,448,440	+	50	50	1.00	45	56	0.82	
<i>ykvU</i>	1,448,558	1,449,895	+	47	51	0.92	46	51	0.90	
<i>ykvV</i>	1,449,946	1,450,443	+	72	70	1.04	88	92	0.96	
<i>ykvW</i>	1,450,679	1,452,592	+	156	129	1.21	150	140	1.08	
<i>ykvY</i>	1,452,999	1,454,090	+	473	487	0.97	562	714	0.79	
<i>ykvZ</i>	1,454,372	1,455,337	+	99	113	0.88	176	227	0.78	
<i>gleT</i>	1,455,400	1,456,257	+	283	317	0.89	330	421	0.78	
<i>ptsG</i>	1,456,496	1,458,595	+	3253	3407	0.95	3262	3293	0.99	
<i>ptsH</i>	1,458,693	1,458,959	+	4474	4824	0.93	3735	3988	0.94	
<i>ptsI</i>	1,458,959	1,460,671	+	5018	5510	0.91	4170	4299	0.97	
<i>spIA</i>	1,460,762	1,461,001	+	299	329	0.91	285	319	0.89	
<i>spIB</i>	1,461,079	1,462,107	+	210	229	0.92	226	249	0.91	
<i>ykwB</i>	1,462,280	1,462,801	-	615	550	1.12	436	397	1.10	
<i>mcpC</i>	1,462,936	1,464,900	+	2428	2795	0.87	1576	1847	0.85	SigD regulon
<i>ykwC</i>	1,465,037	1,465,903	+	2040	1689	1.21	2717	2386	1.14	
<i>ykwD</i>	1,465,942	1,466,715	-	178	153	1.16	219	184	1.19	
<i>ykuA</i>	1,467,109	1,469,166	+	586	654	0.90	553	698	0.79	AbrB regulon
<i>kinA</i>	1,469,330	1,471,150	+	299	297	1.01	297	339	0.88	Spo0A regulon
<i>patA</i>	1,471,161	1,472,339	+	1003	953	1.05	925	907	1.02	
<i>cheV</i>	1,472,906	1,473,817	-	1075	1721	0.62	840	1273	0.66	SigD regulon
<i>ykyB</i>	1,473,861	1,474,325	-	1077	977	1.10	897	922	0.97	
<i>ykuC</i>	1,474,451	1,475,743	-	199	151	1.31	318	320	0.99	
<i>ykuD</i>	1,475,819	1,476,313	-	72	65	1.12	80	91	0.89	
<i>ykuE</i>	1,476,370	1,477,233	-	106	102	1.05	98	116	0.84	
<i>ykuF</i>	1,477,376	1,478,140	+	427	308	1.39	367	302	1.22	
<i>ykuG</i>	1,478,441	1,480,723	+	889	405	2.20	1390	785	1.77	
<i>ykuH</i>	1,480,853	1,481,401	+	472	311	1.52	663	653	1.02	
<i>ykuI</i>	1,481,554	1,482,777	+	559	425	1.32	707	670	1.06	
<i>ykuJ</i>	1,483,423	1,483,662	+	1117	875	1.28	1363	1291	1.06	
<i>ykuK</i>	1,483,772	1,484,290	+	1398	1119	1.25	1540	1600	0.96	
<i>yzkF</i>	1,484,424	1,484,621	+	2185	2345	0.93	3142	3377	0.93	Spo0A regulon
<i>ykuL</i>	1,484,759	1,485,202	+	312	336	0.93	341	314	1.09	Spo0A regulon
<i>ccpC</i>	1,485,351	1,486,232	+	203	202	1.00	328	429	0.76	
<i>ykuN</i>	1,486,344	1,486,820	+	824	1413	0.58	230	529	0.44	
<i>ykuO</i>	1,486,810	1,487,703	+	649	1043	0.62	124	298	0.42	
<i>ykuP</i>	1,487,719	1,488,255	+	497	803	0.62	115	270	0.43	
<i>ykuQ</i>	1,488,280	1,488,990	+	3422	3215	1.06	3552	3009	1.18	
<i>ykuR</i>	1,489,060	1,490,184	+	1031	1050	0.98	1221	1092	1.12	
<i>ykuS</i>	1,490,246	1,490,491	+	1266	1239	1.02	1337	1175	1.14	
<i>ykuT</i>	1,490,528	1,491,331	-	424	263	1.61	291	219	1.32	
<i>ykuU</i>	1,491,568	1,492,110	+	1367	1224	1.12	1688	1440	1.17	AbrB regulon
<i>ykuV</i>	1,492,182	1,492,643	+	604	526	1.15	816	717	1.14	Spo0A and AbrB regulon
<i>rok</i>	1,493,094	1,493,669	+	307	330	0.93	488	607	0.80	Spo0A regulon
<i>yknT</i>	1,493,710	1,494,675	-	54	59	0.91	44	52	0.83	
<i>mobA</i>	1,494,812	1,495,411	+	483	382	1.26	731	574	1.27	
<i>moeB</i>	1,495,462	1,496,481	+	507	433	1.17	795	660	1.20	
<i>moeA</i>	1,496,499	1,497,791	+	510	411	1.24	815	638	1.28	
<i>mobB</i>	1,497,752	1,498,273	+	608	465	1.31	963	786	1.22	
<i>moaE</i>	1,498,273	1,498,746	+	1206	982	1.23	1857	1590	1.17	
<i>moaD</i>	1,498,739	1,498,972	+	84	85	0.99	313	243	1.29	
<i>yknU</i>	1,499,196	1,500,953	+	93	93	1.00	97	102	0.95	
<i>yknV</i>	1,500,965	1,502,779	+	110	106	1.04	106	114	0.93	
<i>yknW</i>	1,502,889	1,503,584	+	2537	2495	1.02	3192	3238	0.99	AbrB regulon
<i>yknX</i>	1,503,589	1,504,722	+	1073	1064	1.01	2759	3093	0.89	AbrB regulon
<i>yknY</i>	1,504,723	1,505,415	+	1018	1013	1.01	2580	2653	0.97	AbrB regulon
<i>yknZ</i>	1,505,412	1,506,605	+	1066	1053	1.01	2303	2400	0.96	AbrB regulon
<i>fruR</i>	1,506,885	1,507,640	+	801	934	0.86	560	388	1.44	Spo0A regulon
<i>fruK</i>	1,507,637	1,508,548	+	508	614	0.83	236	188	1.26	
<i>fruA</i>	1,508,563	1,510,470	+	529	641	0.83	359	339	1.06	
<i>sipT</i>	1,510,615	1,511,196	+	408	368	1.11	408	465	0.88	
<i>ykoA</i>	1,511,230	1,511,499	-	34	42	0.81	129	150	0.86	
<i>ykpA</i>	1,511,680	1,513,302	+	916	901	1.02	1117	1406	0.79	
<i>ykpB</i>	1,513,359	1,514,270	+	454	519	0.87	425	566	0.75	
<i>ampS</i>	1,514,304	1,515,536	-	479	418	1.15	850	832	1.02	
<i>mreBH</i>	1,515,881	1,516,888	-	417	240	1.73	738	451	1.64	
<i>abh</i>	1,517,172	1,517,450	+	1334	1133	1.18	2048	1612	1.27	
<i>kinC</i>	1,517,640	1,518,926	+	564	490	1.15	681	675	1.01	Spo0A regulon
<i>ykqA</i>	1,518,942	1,519,775	+	578	489	1.18	684	716	0.96	
<i>ykqB</i>	1,519,838	1,520,503	+	753	718	1.05	790	801	0.99	
<i>adeC</i>	1,520,658	1,522,391	+	360	317	1.14	562	505	1.11	
<i>ykqC</i>	1,522,425	1,524,092	-	1856	1924	0.96	2289	2711	0.84	
<i>yzkG</i>	1,524,098	1,524,307	-	1755	2125	0.83	1766	2279	0.77	
<i>ykrA</i>	1,524,693	1,525,466	+	554	491	1.13	652	594	1.10	
<i>ykrB</i>	1,525,502	1,526,056	-	274	213	1.29	485	551	0.88	
<i>ykyA</i>	1,526,592	1,527,209	+	403	359	1.12	526	558	0.94	
<i>pdhA</i>	1,527,633	1,528,748	+	3417	2763	1.24	3139	3291	0.95	
<i>pdhB</i>	1,528,752	1,529,729	+	3957	3636	1.09	3371	3478	0.97	
<i>pdhC</i>	1,529,844	1,531,172	+	5243	5235	1.00	4565	4587	1.00	
<i>pdhD</i>	1,531,177	1,532,589	+	3962	4055	0.98	3474	3464	1.00	
<i>slp</i>	1,532,634	1,533,008	-	43	43	1.01	65	64	1.01	
<i>speA</i>	1,533,586	1,535,058	-	134	169	0.79	201	209	0.96	
<i>yktA</i>	1,535,243	1,535,509	+	384	373	1.03	721	762	0.95	
<i>yktB</i>	1,535,542	1,536,180	-	760	630	1.21	1083	979	1.11	
<i>yzkI</i>	1,536,420	1,536,608	+	2961	3299	0.90	2204	1228	1.80	
<i>yktC</i>	1,536,748	1,537,545	+	1181	1356	0.87	861	690	1.25	
<i>yzkC</i>	1,537,571	1,537,999	+	621	611	1.02	489	455	1.07	
<i>yktD</i>	1,538,077	1,538,991	-	161	124	1.30	153	119	1.28	
<i>nprE</i>	1,539,343	1,540,908	-	149	149	1.00	201	224	0.90	AbrB regulon
<i>ylaA</i>	1,541,193	1,543,133	+	55	60	0.91	64	67	0.96	

<i>ylaB</i>	1,543,123	1,543,392	+	50	40	1.25	63	57	1.11	
<i>ylaC</i>	1,543,392	1,543,913	+	76	66	1.16	100	94	1.06	
<i>ylaD</i>	1,543,910	1,544,203	+	65	63	1.04	83	83	0.99	
<i>ylaE</i>	1,544,243	1,544,854	-	332	441	0.75	287	365	0.79	AbrB regulon
<i>ylaF</i>	1,545,127	1,545,315	-	2542	2395	1.06	1875	1612	1.16	
<i>ylaG</i>	1,545,428	1,547,266	+	1060	1023	1.04	1174	1546	0.76	
<i>ylaH</i>	1,547,323	1,547,640	+	173	172	1.01	372	449	0.83	
<i>ylaI</i>	1,547,696	1,547,905	-	389	445	0.87	450	572	0.79	
<i>ylaJ</i>	1,547,988	1,548,617	-	62	69	0.90	55	69	0.80	
<i>ylaK</i>	1,548,772	1,550,100	+	76	67	1.13	64	69	0.92	
<i>ylaL</i>	1,550,104	1,550,589	-	1449	1705	0.85	1505	1614	0.93	
<i>ylaM</i>	1,550,692	1,551,621	+	123	116	1.07	115	125	0.92	
<i>ylaN</i>	1,551,719	1,552,000	+	1202	1622	0.74	1067	1504	0.71	
<i>ftsW</i>	1,552,206	1,553,417	+	469	418	1.12	588	607	0.97	
<i>pycA</i>	1,553,492	1,556,938	+	2358	2092	1.13	2870	2550	1.13	
<i>ctaA</i>	1,557,341	1,558,261	-	1067	1027	1.04	343	341	1.01	
<i>ctaB</i>	1,558,616	1,559,533	+	1420	1697	0.84	1161	1320	0.88	
<i>ctaC</i>	1,559,773	1,560,843	+	777	1176	0.66	513	807	0.64	AbrB regulon
<i>ctaD</i>	1,560,876	1,562,744	+	704	1118	0.63	521	805	0.65	AbrB regulon
<i>ctaE</i>	1,562,744	1,563,367	+	551	949	0.58	463	738	0.63	AbrB regulon
<i>ctaF</i>	1,563,370	1,563,702	+	535	861	0.62	367	681	0.54	AbrB regulon
<i>ctaG</i>	1,563,729	1,564,622	+	322	556	0.58	274	434	0.63	AbrB regulon
<i>ylbA</i>	1,564,654	1,565,016	-	1156	1603	0.72	1233	1640	0.75	AbrB regulon
<i>ylbB</i>	1,565,156	1,565,608	+	226	219	1.03	245	273	0.90	
<i>ylbC</i>	1,565,685	1,566,725	+	445	378	1.18	573	483	1.19	
<i>ylbD</i>	1,566,957	1,567,355	+	94	88	1.07	89	120	0.74	
<i>ylbE</i>	1,567,371	1,567,610	+	49	51	0.97	57	61	0.92	
<i>ylbF</i>	1,567,726	1,568,175	+	602	577	1.04	772	889	0.87	
<i>ylbG</i>	1,568,230	1,568,502	+	367	358	1.02	492	594	0.83	
<i>ylbH</i>	1,568,825	1,569,319	+	335	305	1.10	611	697	0.88	
<i>ylbI</i>	1,569,383	1,569,868	+	286	253	1.13	493	565	0.87	
<i>ylbJ</i>	1,569,879	1,571,105	-	42	46	0.90	38	49	0.79	
<i>ylbK</i>	1,571,286	1,572,068	+	204	181	1.12	269	308	0.87	
<i>ylbL</i>	1,572,070	1,573,122	+	282	267	1.05	444	504	0.88	
<i>ylbM</i>	1,573,111	1,574,358	-	144	160	0.90	169	196	0.86	
<i>ylbN</i>	1,574,568	1,575,086	+	2400	2271	1.06	2733	3156	0.87	
<i>rpmF</i>	1,575,108	1,575,287	+	3434	4011	0.86	4200	4116	1.02	
<i>ylbO</i>	1,575,433	1,576,014	+	172	183	0.94	158	197	0.80	
<i>ylbP</i>	1,576,071	1,576,553	-	1033	1506	0.69	928	1293	0.72	
<i>ylbQ</i>	1,576,713	1,577,609	+	201	185	1.09	268	322	0.83	
<i>ylIA</i>	1,577,680	1,579,299	+	295	278	1.06	564	634	0.89	
<i>ylIB</i>	1,579,425	1,579,856	+	1628	1867	0.87	1783	2194	0.81	
<i>ylxA</i>	1,579,926	1,580,861	+	1042	1127	0.92	1213	1540	0.79	
<i>ftsL</i>	1,580,901	1,581,254	+	1407	1935	0.73	1850	2326	0.80	
<i>pbpB</i>	1,581,251	1,583,401	+	373	483	0.77	697	908	0.77	
<i>spoVD</i>	1,583,518	1,585,455	+	109	102	1.07	114	124	0.92	
<i>murE</i>	1,585,631	1,587,115	+	859	582	1.48	1352	1328	1.02	
<i>mraY</i>	1,587,228	1,588,202	+	667	416	1.61	1086	1015	1.07	
<i>murD</i>	1,588,203	1,589,558	+	953	670	1.42	1761	1631	1.08	
<i>spoVE</i>	1,589,619	1,590,719	+	461	305	1.51	748	710	1.05	
<i>murG</i>	1,590,842	1,591,933	+	460	339	1.35	1137	940	1.21	
<i>murB</i>	1,591,960	1,592,871	+	610	482	1.27	1348	1130	1.19	
<i>divIB</i>	1,593,002	1,593,793	+	538	454	1.18	894	821	1.09	
<i>ylxW</i>	1,593,790	1,594,485	+	536	453	1.18	1023	908	1.13	
<i>ylxX</i>	1,594,508	1,595,215	+	571	562	1.02	950	930	1.02	
<i>shp</i>	1,595,233	1,595,598	+	185	219	0.85	534	604	0.88	
<i>ftsA</i>	1,595,772	1,597,094	+	2008	2035	0.99	2004	2053	0.98	
<i>ftsZ</i>	1,597,130	1,598,278	+	3084	2933	1.05	3351	3117	1.07	
<i>bpr</i>	1,598,580	1,602,881	+	117	123	0.95	130	128	1.02	
<i>spoIIIGA</i>	1,603,076	1,604,005	+	39	41	0.96	43	49	0.89	Spo0A regulon
<i>sigE</i>	1,604,068	1,604,787	+	47	44	1.07	59	64	0.93	
<i>sigG</i>	1,604,927	1,605,709	+	51	55	0.92	57	71	0.80	AbrB regulon
<i>ylmA</i>	1,605,857	1,606,651	+	391	322	1.22	709	733	0.97	
<i>ylmB</i>	1,606,853	1,608,133	+	427	401	1.06	760	705	1.08	
<i>ylmC</i>	1,608,216	1,608,461	+	653	628	1.04	1105	1080	1.02	
<i>ylmD</i>	1,608,624	1,609,460	+	1686	1521	1.11	1787	1751	1.02	Spo0A regulon
<i>ylmE</i>	1,609,473	1,610,165	+	2547	2002	1.27	2546	2350	1.08	
<i>ylmF</i>	1,610,168	1,610,617	+	2548	2123	1.20	2788	2529	1.10	
<i>ylmG</i>	1,610,624	1,610,896	+	1391	1149	1.21	1799	1639	1.10	
<i>ylmH</i>	1,610,957	1,611,730	+	729	651	1.12	1136	1197	0.95	
<i>divIVA</i>	1,611,824	1,612,318	+	939	926	1.01	1527	1795	0.85	Spo0A regulon
<i>ileS</i>	1,612,660	1,615,425	+	858	881	0.97	1523	1599	0.95	
<i>ylxA</i>	1,615,503	1,615,946	+	28	34	0.83	33	35	0.95	
<i>lspA</i>	1,616,049	1,616,513	+	271	265	1.02	387	475	0.81	
<i>ylxB</i>	1,616,515	1,617,426	+	363	306	1.19	606	669	0.91	
<i>pyrR</i>	1,617,609	1,618,154	+	237	530	0.45	749	1055	0.71	
<i>pyrP</i>	1,618,326	1,619,630	+	342	370	0.92	726	915	0.79	
<i>pyrB</i>	1,619,776	1,620,690	+	193	206	0.94	582	728	0.80	
<i>pyrC</i>	1,620,674	1,621,960	+	310	338	0.92	1014	1227	0.83	
<i>pyrAA</i>	1,621,957	1,623,051	+	533	612	0.87	1393	1683	0.83	
<i>pyrAB</i>	1,623,036	1,626,251	+	1060	1181	0.90	1566	1786	0.88	
<i>pyrK</i>	1,626,248	1,627,018	+	1041	1216	0.86	1264	1461	0.87	
<i>pyrD</i>	1,627,018	1,627,953	+	1720	1861	0.92	1715	1911	0.90	
<i>pyrF</i>	1,627,922	1,628,641	+	1632	1793	0.91	1609	1814	0.89	
<i>pyrE</i>	1,628,620	1,629,270	+	1426	1511	0.94	1180	1385	0.85	
<i>cysH</i>	1,629,682	1,630,383	+	3644	3151	1.16	3315	3543	0.94	
<i>cysP</i>	1,630,395	1,631,459	+	2937	2414	1.22	2860	3000	0.95	
<i>sat</i>	1,631,508	1,632,656	+	3578	3142	1.14	3853	3803	1.01	
<i>cysC</i>	1,632,669	1,633,262	+	3175	2899	1.10	3035	2872	1.06	
<i>ylnD</i>	1,633,361	1,634,134	+	3283	3119	1.05	3306	3301	1.00	
<i>ylnE</i>	1,634,137	1,634,922	+	3359	3132	1.07	3260	3105	1.05	

<i>ylnF</i>	1,634,903	1,635,391	+	2641	2572	1.03	3362	3159	1.06
<i>yloA</i>	1,635,431	1,637,149	-	359	349	1.03	433	503	0.86
<i>yloB</i>	1,637,265	1,639,937	+	112	117	0.95	123	136	0.91
<i>yloC</i>	1,640,020	1,640,895	+	1354	1160	1.17	1409	1602	0.88
<i>ylzA</i>	1,640,972	1,641,241	+	1562	1239	1.26	1581	1744	0.91
<i>gmk</i>	1,641,249	1,641,863	+	1209	1002	1.21	1665	1804	0.92
<i>yloH</i>	1,641,867	1,642,070	+	1738	1277	1.36	1842	2085	0.88
<i>yloI</i>	1,642,151	1,643,371	+	242	201	1.21	474	465	1.02
<i>priA</i>	1,643,368	1,645,785	+	296	285	1.04	541	543	1.00
<i>def</i>	1,645,812	1,646,294	+	363	355	1.02	670	682	0.98
<i>fmt</i>	1,646,299	1,647,252	+	607	589	1.03	950	1052	0.90
<i>yloM</i>	1,647,239	1,648,582	+	639	603	1.06	1019	1042	0.98
<i>yloN</i>	1,648,586	1,649,677	+	965	973	0.99	1425	1390	1.03
<i>prpC</i>	1,649,684	1,650,448	+	547	641	0.85	1065	1146	0.93
<i>prkC</i>	1,650,442	1,652,388	+	554	656	0.84	1178	1362	0.87
<i>yloQ</i>	1,652,403	1,653,299	+	1157	910	1.27	1100	1091	1.01
<i>rpe</i>	1,653,304	1,653,957	+	796	627	1.27	704	736	0.96
<i>yloS</i>	1,654,030	1,654,674	+	437	316	1.39	457	504	0.91
<i>rpmB</i>	1,654,899	1,655,087	-	228	331	0.69	1880	1970	0.95
<i>yloU</i>	1,655,364	1,655,726	+	1305	1306	1.00	1952	2068	0.94
<i>yloV</i>	1,655,742	1,657,403	+	979	1006	0.97	1436	1465	0.98
<i>sdaAB</i>	1,657,542	1,658,204	+	534	492	1.09	421	379	1.11
<i>sdaAA</i>	1,658,230	1,659,132	+	824	694	1.19	707	627	1.13
<i>recG</i>	1,659,110	1,661,158	+	616	452	1.36	556	475	1.17
<i>ylpC</i>	1,661,267	1,661,833	+	3237	3696	0.88	2657	2994	0.89
<i>plsX</i>	1,661,847	1,662,848	+	2175	2412	0.90	1827	2271	0.80
<i>fabD</i>	1,662,867	1,663,820	+	2526	2544	0.99	2560	2978	0.86
<i>fabG</i>	1,663,813	1,664,553	+	3794	3652	1.04	3499	4024	0.87
<i>acpA</i>	1,664,637	1,664,870	+	4068	4537	0.90	5021	4877	1.03
<i>rnc</i>	1,665,010	1,665,759	+	1338	1004	1.33	1463	1597	0.92
<i>smc</i>	1,665,860	1,669,420	+	397	338	1.18	675	673	1.00
<i>ftsY</i>	1,669,440	1,670,429	+	389	345	1.13	729	661	1.10
<i>ylqB</i>	1,670,466	1,670,951	-	3773	4902	0.77	3710	4263	0.87
<i>ylxM</i>	1,671,128	1,671,460	+	4095	3918	1.05	3482	3986	0.87
<i>ffh</i>	1,671,474	1,672,814	+	3188	3336	0.96	2909	3272	0.89
<i>rpsP</i>	1,672,920	1,673,192	+	3513	4033	0.87	2684	2854	0.94
<i>ylqC</i>	1,673,192	1,673,437	+	2743	2795	0.98	1359	1401	0.97
<i>ylqD</i>	1,673,559	1,673,945	+	523	565	0.93	880	1085	0.81
<i>rimM</i>	1,673,950	1,674,474	+	1071	1095	0.98	1202	1529	0.79
<i>trmD</i>	1,674,471	1,675,202	+	1127	966	1.17	1127	1175	0.96
<i>rplS</i>	1,675,333	1,675,689	+	7149	8018	0.89	6668	6386	1.04
<i>ylqF</i>	1,675,832	1,676,680	+	313	330	0.95	442	601	0.74
<i>rnhB</i>	1,676,751	1,677,518	+	1342	1366	0.98	1092	1272	0.86
<i>ylqG</i>	1,677,550	1,679,280	+	1261	1186	1.06	850	1022	0.83
<i>ylqH</i>	1,679,277	1,679,558	+	780	675	1.16	600	776	0.77
<i>sucC</i>	1,679,731	1,680,888	+	4610	5112	0.90	4597	4688	0.98
<i>sucD</i>	1,680,917	1,681,819	+	4475	5133	0.87	4492	4662	0.96
<i>smf</i>	1,681,880	1,682,773	+	343	430	0.80	511	745	0.69
<i>topA</i>	1,682,961	1,685,036	+	869	863	1.01	1194	1351	0.88
<i>gid</i>	1,685,112	1,686,419	+	382	306	1.25	741	678	1.09
<i>codV</i>	1,686,487	1,687,401	+	1121	868	1.29	1538	1394	1.10
<i>clpQ</i>	1,687,414	1,687,959	+	985	788	1.25	1524	1452	1.05
<i>clpY</i>	1,687,976	1,689,379	+	1577	1246	1.27	2045	1870	1.09
<i>codY</i>	1,689,419	1,690,198	+	1390	1109	1.25	1766	1570	1.12
<i>flgB</i>	1,690,578	1,690,967	+	1485	1645	0.90	1124	1408	0.80
<i>flgC</i>	1,690,967	1,691,419	+	2517	2861	0.88	2093	2313	0.90
<i>fljE</i>	1,691,430	1,691,750	+	1547	1810	0.85	1450	1615	0.90
<i>fljF</i>	1,691,796	1,693,406	+	2405	2527	0.95	2131	2399	0.89
<i>fljG</i>	1,693,419	1,694,435	+	2517	2539	0.99	2197	2421	0.91
<i>fljH</i>	1,694,553	1,695,179	+	2613	2697	0.97	2390	2613	0.91
<i>fljI</i>	1,695,166	1,696,488	+	1993	2101	0.95	2033	2228	0.91
<i>fljJ</i>	1,696,491	1,696,934	+	2557	2663	0.96	2374	2718	0.87
<i>ylxH</i>	1,696,946	1,697,587	+	1836	1872	0.98	2047	2179	0.94
<i>fljK</i>	1,697,748	1,699,037	+	1457	1530	0.95	1747	1796	0.97
<i>ylxG</i>	1,699,034	1,699,456	+	1425	1504	0.95	1800	1768	1.02
<i>flgE</i>	1,699,478	1,700,272	+	2187	2313	0.95	2741	2789	0.98
<i>fljL</i>	1,700,524	1,700,946	+	1770	1746	1.01	1972	2163	0.91
<i>fljM</i>	1,700,980	1,701,978	+	2553	2805	0.91	2848	2795	1.02
<i>fljY</i>	1,701,968	1,703,104	+	2415	2629	0.92	2736	2763	0.99
<i>cheY</i>	1,703,130	1,703,492	+	2214	2356	0.94	2486	2444	1.02
<i>fljZ</i>	1,703,507	1,704,166	+	1970	2147	0.92	2151	2296	0.94
<i>fljP</i>	1,704,159	1,704,824	+	1657	1791	0.93	1917	2082	0.92
<i>fljQ</i>	1,704,839	1,705,108	+	1434	1541	0.93	1729	1892	0.91
<i>fljR</i>	1,705,116	1,705,895	+	1216	1323	0.92	1444	1599	0.90
<i>flhB</i>	1,705,895	1,706,977	+	1345	1512	0.89	1646	1815	0.91
<i>flhA</i>	1,707,010	1,709,043	+	1208	1331	0.91	1490	1657	0.90
<i>flhF</i>	1,709,043	1,710,143	+	1199	1373	0.87	1608	1700	0.95
<i>ylxI</i>	1,710,134	1,711,030	+	942	1064	0.88	1293	1387	0.93
<i>cheB</i>	1,711,032	1,712,105	+	1212	1347	0.90	1665	1744	0.95
<i>cheA</i>	1,712,111	1,714,126	+	1700	1961	0.87	1983	2010	0.99
<i>cheW</i>	1,714,148	1,714,618	+	2063	2508	0.82	2604	2618	0.99
<i>cheC</i>	1,714,637	1,715,266	+	1981	2239	0.88	1953	1970	0.99
<i>cheD</i>	1,715,263	1,715,763	+	1515	1716	0.88	1636	1634	1.00
<i>sigD</i>	1,715,786	1,716,550	+	2203	2435	0.90	2402	2345	1.02
<i>ylxL</i>	1,716,579	1,717,082	+	1855	1970	0.94	1856	1811	1.02
<i>rpsB</i>	1,717,226	1,717,966	+	3968	4001	0.99	4025	4069	0.99
<i>tsf</i>	1,718,068	1,718,949	+	3057	3165	0.97	3873	4132	0.94
<i>pyrH</i>	1,719,095	1,719,817	+	1137	1050	1.08	2026	2307	0.88
<i>frr</i>	1,719,819	1,720,376	+	592	545	1.09	1190	1344	0.89
<i>uppS</i>	1,720,507	1,721,289	+	845	812	1.04	1107	1257	0.88
<i>cdsA</i>	1,721,293	1,722,102	+	430	370	1.16	707	833	0.85

AbrB and SigD regulon

Spo0A and SigD regulon

<i>dxr</i>	1,722,164	1,723,330	+	782	662	1.18	1337	1446	0.92
<i>yluC</i>	1,723,321	1,724,589	+	1144	999	1.14	1694	1759	0.96
<i>proS</i>	1,724,622	1,726,316	+	876	782	1.12	1506	1465	1.03
<i>polC</i>	1,726,425	1,730,738	+	427	394	1.08	714	732	0.98
<i>ylxS</i>	1,731,068	1,731,538	+	1238	1213	1.02	1935	2332	0.83
<i>nusA</i>	1,731,573	1,732,688	+	1760	1714	1.03	2517	2904	0.87
<i>ylxR</i>	1,732,702	1,732,977	+	1811	1951	0.93	3156	3413	0.92
<i>ylxQ</i>	1,732,979	1,733,281	+	2017	2170	0.93	3545	3614	0.98
<i>infB</i>	1,733,301	1,735,451	+	2158	2449	0.88	2837	3005	0.94
<i>ylxP</i>	1,735,448	1,735,726	+	4356	4285	1.02	3291	3150	1.04
<i>rbfA</i>	1,735,743	1,736,096	+	527	532	0.99	567	533	1.06
<i>truB</i>	1,736,178	1,737,107	+	781	719	1.09	665	743	0.89
<i>ribC</i>	1,737,126	1,738,076	+	1387	1214	1.14	1293	1306	0.99
<i>rpsO</i>	1,738,233	1,738,502	+	1597	2089	0.76	3644	3772	0.97
<i>pnpA</i>	1,738,675	1,740,792	+	1823	1772	1.03	2182	2394	0.91
<i>ylxY</i>	1,740,910	1,741,869	+	167	155	1.08	405	435	0.93
<i>mlpA</i>	1,741,909	1,743,138	+	240	232	1.03	505	524	0.96
<i>ymxH</i>	1,743,216	1,743,473	+	37	47	0.79	50	48	1.03
<i>spoVFA</i>	1,743,659	1,744,552	+	44	49	0.91	34	41	0.83
<i>spoVFB</i>	1,744,555	1,745,157	+	59	62	0.95	46	48	0.95
<i>asd</i>	1,745,283	1,746,323	+	2120	1960	1.08	2396	2735	0.88
<i>dapG</i>	1,746,415	1,747,629	+	1194	961	1.24	1856	1743	1.07
<i>dapA</i>	1,747,660	1,748,532	+	1838	1598	1.15	2444	2226	1.10
<i>ymfA</i>	1,748,830	1,750,377	+	1667	1436	1.16	2157	2119	1.02
<i>tepA</i>	1,750,559	1,751,230	+	77	73	1.05	94	98	0.96
<i>spoIIIIE</i>	1,751,569	1,753,932	+	599	539	1.11	556	592	0.94
<i>ymfC</i>	1,754,075	1,754,800	+	728	848	0.86	811	1069	0.76
<i>ymfD</i>	1,754,939	1,755,313	+	89	98	0.90	83	111	0.75
<i>ymfE</i>	1,755,565	1,756,149	+	55	58	0.95	80	83	0.97
<i>ymfF</i>	1,756,424	1,756,756	+	894	772	1.16	1078	1326	0.81
<i>ymfG</i>	1,756,821	1,757,543	+	1061	1028	1.03	1555	1624	0.96
<i>ymfH</i>	1,757,626	1,758,873	+	847	870	0.97	1297	1267	1.02
<i>ymfI</i>	1,758,928	1,759,656	+	179	181	0.99	262	227	1.15
<i>ymfJ</i>	1,759,737	1,759,994	+	100	116	0.87	220	176	1.25
<i>ymfK</i>	1,760,138	1,760,638	+	742	817	0.91	489	602	0.81
<i>ymfL</i>	1,760,526	1,760,912	+	1200	1323	0.91	907	1189	0.76
<i>ymfM</i>	1,760,979	1,761,620	+	813	935	0.87	875	977	0.90
<i>pgsA</i>	1,761,895	1,762,476	+	317	259	1.23	541	521	1.04
<i>cinA</i>	1,762,494	1,763,744	+	625	511	1.22	1050	951	1.10
<i>recA</i>	1,763,917	1,764,960	+	2126	1936	1.10	2366	2383	0.99
<i>pbpX</i>	1,765,128	1,766,303	+	171	164	1.04	432	422	1.02
<i>ymdA</i>	1,766,580	1,768,142	+	4080	4158	0.98	3992	4063	0.98
<i>ymdB</i>	1,768,211	1,769,005	+	511	510	1.00	733	804	0.91
<i>spoVS</i>	1,769,205	1,769,465	+	1109	1138	0.97	1345	1486	0.91
<i>tdh</i>	1,769,731	1,770,774	+	112	141	0.79	121	149	0.81
<i>kbl</i>	1,770,787	1,771,965	+	104	135	0.77	99	124	0.80
<i>ymcB</i>	1,772,113	1,773,642	+	1436	1261	1.14	1772	1712	1.04
<i>ymcA</i>	1,773,644	1,774,075	+	799	916	0.87	1204	1083	1.11
<i>cotE</i>	1,774,337	1,774,882	+	80	80	1.01	83	85	0.97
<i>mutS</i>	1,775,015	1,777,591	+	319	254	1.26	455	520	0.88
<i>mutL</i>	1,777,607	1,779,490	+	497	439	1.13	763	747	1.02
<i>ymzD</i>	1,779,888	1,780,343	-	251	306	0.82	256	336	0.76
<i>ymcC</i>	1,780,498	1,781,055	-	62	67	0.93	73	80	0.92
<i>pksA</i>	1,781,176	1,781,793	+	149	153	0.98	181	265	0.68
<i>pksB</i>	1,781,983	1,782,660	+	333	273	1.22	299	293	1.02
<i>pksC</i>	1,783,033	1,783,899	+	443	455	0.98	525	579	0.91
<i>pksD</i>	1,784,403	1,785,293	+	295	241	1.22	309	360	0.86
<i>pksE</i>	1,785,290	1,787,593	+	387	309	1.25	433	512	0.84
<i>acpK</i>	1,787,654	1,787,902	+	269	216	1.25	308	355	0.87
<i>pksF</i>	1,787,880	1,789,130	+	261	232	1.13	319	341	0.94
<i>pksG</i>	1,789,131	1,790,393	+	213	207	1.03	335	368	0.91
<i>pksH</i>	1,790,381	1,791,160	+	174	174	1.00	260	290	0.90
<i>pksI</i>	1,791,200	1,791,949	+	126	128	0.98	211	258	0.82
<i>pksJ</i>	1,791,994	1,807,131	+	288	302	0.96	362	355	1.02
<i>pksL</i>	1,807,146	1,820,731	+	459	453	1.01	471	438	1.08
<i>pksM</i>	1,820,747	1,833,535	+	339	336	1.01	357	327	1.09
<i>pksN</i>	1,833,603	1,850,069	+	390	381	1.02	451	389	1.16
<i>pksR</i>	1,850,084	1,857,715	+	478	444	1.08	534	448	1.19
<i>pksS</i>	1,857,854	1,858,984	-	664	539	1.23	606	602	1.01
<i>ymzB</i>	1,859,209	1,859,565	-	831	578	1.44	677	446	1.52
<i>ymaE</i>	1,859,644	1,860,342	-	409	391	1.05	695	581	1.20
<i>aprX</i>	1,860,580	1,861,908	-	86	85	1.01	74	82	0.89
<i>ymaC</i>	1,862,644	1,863,351	+	97	100	0.97	111	125	0.88
<i>ymaD</i>	1,863,421	1,863,873	+	108	118	0.91	221	196	1.13
<i>ebrB</i>	1,863,887	1,864,240	-	77	81	0.95	63	64	0.97
<i>ebrA</i>	1,864,254	1,864,571	-	55	61	0.89	56	59	0.94
<i>ymaG</i>	1,864,708	1,865,079	-	40	42	0.96	38	45	0.85
<i>ymaF</i>	1,865,072	1,865,485	+	47	46	1.01	42	51	0.81
<i>miaA</i>	1,865,584	1,866,528	+	349	251	1.39	331	297	1.11
<i>ymaH</i>	1,866,568	1,866,789	+	461	502	0.92	751	959	0.78
<i>ymzC</i>	1,866,985	1,867,257	+	251	214	1.18	307	318	0.96
<i>ymzA</i>	1,867,339	1,867,569	+	440	426	1.03	646	651	0.99
<i>ymaA</i>	1,867,812	1,868,204	+	463	366	1.27	866	1083	0.80
<i>nrdE</i>	1,868,164	1,870,266	+	758	581	1.30	1458	1602	0.91
<i>nrdF</i>	1,870,284	1,871,273	+	677	596	1.14	1313	1346	0.98
<i>ymaB</i>	1,871,323	1,871,943	+	319	295	1.08	733	708	1.04
<i>cwlC</i>	1,872,007	1,872,774	-	44	50	0.88	53	52	1.01
<i>spoVK</i>	1,873,398	1,874,366	+	83	84	0.99	89	95	0.93
<i>ynbA</i>	1,874,587	1,875,591	+	477	394	1.21	629	617	1.02
<i>ynbB</i>	1,875,779	1,877,044	+	474	329	1.44	812	673	1.21
<i>glnR</i>	1,877,155	1,877,562	+	1561	1783	0.88	1153	1151	1.00

AbrB regulon
AbrB regulon

<i>glnA</i>	1,877,623	1,878,957	+	4131	4792	0.86	4124	4291	0.96	
<i>ynxB</i>	1,879,285	1,879,575	+	126	142	0.89	120	111	1.08	
<i>ynzF</i>	1,879,821	1,880,165	+	413	367	1.12	414	365	1.14	
<i>ynzG</i>	1,880,296	1,880,547	+	72	65	1.12	60	59	1.02	
<i>ynaB</i>	1,880,867	1,881,178	+	520	405	1.28	627	495	1.27	
<i>ynaC</i>	1,881,248	1,882,039	+	338	275	1.23	464	392	1.18	
<i>ynaD</i>	1,882,374	1,882,886	+	40	43	0.93	69	75	0.92	
<i>ynaE</i>	1,883,446	1,884,087	+	140	143	0.98	151	190	0.79	
<i>ynaF</i>	1,884,176	1,884,529	+	101	99	1.03	100	131	0.77	
<i>ynaG</i>	1,884,573	1,884,848	+	117	105	1.12	132	141	0.94	
<i>ynaI</i>	1,885,265	1,885,735	+	48	46	1.05	56	63	0.88	
<i>xynP</i>	1,886,560	1,887,951	+	35	45	0.78	38	42	0.91	
<i>xynB</i>	1,887,982	1,889,583	+	58	58	1.01	57	61	0.95	
<i>xylR</i>	1,889,720	1,890,772	-	168	156	1.08	184	183	1.00	
<i>xylA</i>	1,891,116	1,892,453	+	83	143	0.58	85	105	0.81	
<i>xylB</i>	1,892,604	1,894,103	+	84	93	0.90	86	91	0.95	
<i>yncB</i>	1,894,586	1,895,221	-	121	123	0.98	168	159	1.06	
<i>yncC</i>	1,895,632	1,896,891	+	54	69	0.78	52	62	0.85	
<i>yncD</i>	1,897,149	1,898,333	-	67	77	0.88	60	74	0.81	
<i>yncE</i>	1,898,797	1,899,258	+	90	88	1.02	138	129	1.07	
<i>yncF</i>	1,899,288	1,899,722	+	184	171	1.08	262	285	0.92	
<i>ynzH</i>	1,900,326	1,900,586	-	28	35	0.80	34	38	0.92	
<i>thyA</i>	1,901,428	1,902,267	+	139	130	1.07	191	208	0.92	
<i>yncM</i>	1,902,720	1,903,472	-	1302	1444	0.90	1213	1276	0.95	AbrB regulon
<i>cotC</i>	1,904,204	1,904,560	-	32	36	0.88	44	48	0.92	
<i>tatAC</i>	1,904,579	1,904,767	-	311	328	0.95	282	291	0.97	
<i>yndA</i>	1,905,018	1,905,416	+	31	37	0.85	37	40	0.93	
<i>yndB</i>	1,905,481	1,905,915	-	394	407	0.97	485	569	0.85	
<i>ynzB</i>	1,906,222	1,906,410	+	53	56	0.93	76	86	0.89	
<i>yndD</i>	1,906,703	1,908,265	+	64	58	1.11	44	47	0.93	
<i>yndE</i>	1,908,295	1,909,386	+	56	50	1.11	44	46	0.95	
<i>yndF</i>	1,909,376	1,910,590	+	97	100	0.97	87	95	0.91	
<i>yndG</i>	1,910,737	1,911,543	+	209	160	1.31	337	283	1.19	
<i>yndH</i>	1,911,548	1,912,165	+	198	143	1.39	269	243	1.11	
<i>yndJ</i>	1,912,162	1,913,802	+	190	138	1.38	323	266	1.22	
<i>yndK</i>	1,913,839	1,914,204	+	212	154	1.37	324	286	1.13	
<i>yndL</i>	1,914,430	1,915,188	+	56	65	0.87	46	64	0.72	
<i>yndM</i>	1,915,215	1,915,754	-	26	31	0.83	31	31	1.01	
<i>yndN</i>	1,915,872	1,916,306	+	554	469	1.18	774	617	1.25	
<i>lexA</i>	1,916,848	1,917,465	-	1196	1285	0.93	885	1206	0.73	
<i>yneA</i>	1,917,615	1,917,932	+	201	117	1.72	187	147	1.27	
<i>yneB</i>	1,917,951	1,918,604	+	233	159	1.47	329	275	1.20	
<i>ynzC</i>	1,918,668	1,918,901	+	105	109	0.96	152	202	0.75	
<i>tkf</i>	1,919,070	1,921,073	+	1791	1747	1.02	2316	2302	1.01	Spo0A regulon
<i>yneE</i>	1,921,226	1,921,672	+	65	82	0.80	77	85	0.91	Spo0A regulon
<i>yneF</i>	1,921,758	1,921,976	+	598	646	0.93	1716	1689	1.02	
<i>ynzD</i>	1,922,050	1,922,223	-	136	123	1.11	262	307	0.86	AbrB regulon
<i>ccdA</i>	1,922,443	1,923,150	+	212	176	1.20	245	237	1.03	
<i>yneI</i>	1,923,239	1,923,601	+	551	462	1.19	689	704	0.98	
<i>yneJ</i>	1,923,680	1,924,171	+	357	396	0.90	497	558	0.89	
<i>yneK</i>	1,924,202	1,924,630	+	527	406	1.30	458	440	1.04	
<i>cotM</i>	1,924,864	1,925,256	-	23	28	0.82	32	37	0.87	
<i>citB</i>	1,925,889	1,928,618	+	2897	3674	0.79	3727	4119	0.90	
<i>yneN</i>	1,928,690	1,929,202	+	360	550	0.65	745	1082	0.69	
<i>tlp</i>	1,929,656	1,929,907	+	225	167	1.35	217	109	2.00	
<i>yneP</i>	1,930,043	1,930,408	+	118	93	1.26	123	122	1.01	
<i>yneQ</i>	1,930,424	1,930,723	+	143	136	1.05	256	237	1.08	
<i>yneR</i>	1,930,754	1,931,041	-	254	266	0.95	542	462	1.17	
<i>yneS</i>	1,931,129	1,931,710	-	445	427	1.04	453	559	0.81	
<i>yneT</i>	1,931,880	1,932,287	+	612	702	0.87	748	856	0.87	
<i>parE</i>	1,932,686	1,934,653	+	471	359	1.31	840	769	1.09	
<i>parC</i>	1,934,657	1,937,077	+	697	558	1.25	1227	1041	1.18	
<i>ynfC</i>	1,937,275	1,937,685	-	1634	1942	0.84	704	584	1.20	
<i>alsT</i>	1,938,134	1,939,531	+	322	333	0.97	508	670	0.76	
<i>bgIC</i>	1,939,834	1,941,333	+	176	170	1.04	160	154	1.04	
<i>ynfE</i>	1,941,401	1,941,664	+	31	32	0.96	32	34	0.94	
<i>ynfF</i>	1,941,923	1,943,191	-	349	251	1.39	383	298	1.29	AbrB regulon
<i>xynD</i>	1,943,322	1,944,863	-	252	180	1.40	312	265	1.18	AbrB regulon
<i>yngA</i>	1,945,458	1,945,904	+	48	43	1.13	37	38	0.98	
<i>yngB</i>	1,945,911	1,946,804	+	349	268	1.30	322	329	0.98	
<i>yngC</i>	1,946,877	1,947,473	+	569	420	1.36	839	634	1.32	
<i>yngD</i>	1,947,522	1,948,721	-	63	67	0.95	59	62	0.95	
<i>yngE</i>	1,948,891	1,950,678	-	81	80	1.02	67	76	0.88	
<i>yngF</i>	1,950,437	1,951,219	-	57	58	0.98	46	48	0.95	
<i>yngG</i>	1,951,240	1,952,139	-	64	60	1.06	44	60	0.74	
<i>yngH</i>	1,952,390	1,953,724	-	76	81	0.95	60	72	0.83	
<i>yngI</i>	1,953,734	1,955,383	-	69	70	0.99	49	58	0.85	
<i>yngJ</i>	1,955,427	1,956,569	-	83	81	1.02	55	65	0.85	
<i>ynzE</i>	1,956,660	1,956,965	-	25	35	0.72	25	30	0.84	
<i>yngK</i>	1,957,236	1,958,768	-	72	78	0.92	54	76	0.71	
<i>yngL</i>	1,958,904	1,959,296	-	45	51	0.89	39	51	0.75	
<i>ppsE</i>	1,959,407	1,963,246	-	376	406	0.93	408	419	0.97	AbrB regulon
<i>ppsD</i>	1,963,254	1,974,065	-	459	495	0.93	462	472	0.98	AbrB regulon
<i>ppsC</i>	1,974,090	1,981,757	-	490	534	0.92	494	519	0.95	AbrB regulon
<i>ppsB</i>	1,981,774	1,989,456	-	272	305	0.89	329	366	0.90	AbrB regulon
<i>ppsA</i>	1,989,481	1,997,166	-	417	437	0.95	389	432	0.90	AbrB regulon
<i>dacC</i>	1,997,549	1,999,024	-	356	359	0.99	429	444	0.97	AbrB regulon
<i>yoxA</i>	1,999,058	2,000,035	-	286	304	0.94	360	378	0.95	
<i>yoeA</i>	2,000,169	2,001,560	-	427	410	1.04	590	487	1.21	
<i>yoeB</i>	2,001,846	2,002,391	+	3963	5630	0.70	1747	1508	1.16	
<i>yoeC</i>	2,002,869	2,003,156	-	105	75	1.40	92	119	0.77	

<i>yoeD</i>	2,003,472	2,003,702	-	77	73	1.07	102	105	0.97	
<i>ggt</i>	2,003,887	2,005,650	+	95	107	0.89	81	93	0.87	
<i>yofA</i>	2,005,751	2,006,608	-	112	84	1.32	165	172	0.96	
<i>yogA</i>	2,006,736	2,007,725	+	78	77	1.02	86	92	0.94	
<i>glbB</i>	2,007,782	2,009,263	-	3245	3740	0.87	3852	3813	1.01	
<i>glfA</i>	2,009,280	2,013,842	-	1961	2176	0.90	2819	2961	0.95	
<i>glfC</i>	2,013,989	2,014,891	+	268	257	1.04	202	274	0.74	
<i>proJ</i>	2,014,943	2,016,058	-	299	159	1.88	857	687	1.25	
<i>proH</i>	2,016,055	2,016,948	-	419	230	1.82	1126	915	1.23	
<i>rtf</i>	2,017,095	2,017,463	-	79	97	0.82	117	119	0.98	
<i>yoxD</i>	2,017,763	2,018,479	-	587	596	0.98	1227	1262	0.97	
<i>yoxC</i>	2,018,630	2,018,935	+	3941	3113	1.27	2016	987	2.04	
<i>yoxB</i>	2,019,006	2,019,776	+	1771	1166	1.52	458	206	2.23	
<i>yoaA</i>	2,019,820	2,020,317	+	1137	684	1.66	332	176	1.89	
<i>yoaB</i>	2,020,433	2,021,677	-	181	244	0.74	375	442	0.85	
<i>yoaC</i>	2,021,771	2,023,234	-	169	216	0.78	532	628	0.85	
<i>yoaD</i>	2,023,252	2,024,286	-	101	112	0.90	263	321	0.82	
<i>yoaE</i>	2,024,610	2,026,643	+	330	341	0.97	633	675	0.94	
<i>yoaF</i>	2,026,720	2,027,013	+	431	382	1.13	631	875	0.72	
<i>yoaG</i>	2,027,386	2,027,790	-	163	155	1.05	386	447	0.86	
<i>yozQ</i>	2,028,231	2,028,524	+	87	93	0.93	120	125	0.96	
<i>yoaH</i>	2,028,640	2,030,244	-	636	747	0.85	509	473	1.08	SigD regulon
<i>yoaI</i>	2,030,972	2,032,099	+	62	52	1.19	40	40	1.00	
<i>yoaJ</i>	2,032,136	2,032,834	-	201	236	0.85	179	196	0.91	
<i>yoaK</i>	2,033,104	2,033,781	-	72	73	0.98	98	98	1.00	
<i>pelB</i>	2,033,954	2,034,991	+	53	54	0.99	57	54	1.04	
<i>yoaM</i>	2,035,248	2,035,931	+	35	45	0.78	38	46	0.82	
<i>yoaN</i>	2,036,810	2,037,988	-	46	53	0.87	46	50	0.91	
<i>yoaO</i>	2,038,111	2,038,599	-	132	112	1.18	210	175	1.20	
<i>yoaP</i>	2,038,819	2,039,574	-	62	59	1.05	59	56	1.05	
<i>yoaQ</i>	2,039,882	2,040,238	+	33	35	0.95	33	35	0.93	
<i>yozF</i>	2,040,786	2,041,037	-	49	43	1.15	41	39	1.06	
<i>yoaR</i>	2,041,138	2,042,049	-	51	53	0.96	37	43	0.85	
<i>yoaS</i>	2,042,396	2,042,878	+	157	180	0.88	105	109	0.96	
<i>yozG</i>	2,042,888	2,043,142	+	297	326	0.91	248	260	0.95	
<i>yoaT</i>	2,043,248	2,044,042	+	126	148	0.85	136	134	1.01	
<i>yoaU</i>	2,044,166	2,045,038	-	64	62	1.04	60	70	0.85	
<i>yoaV</i>	2,045,139	2,046,017	+	45	51	0.89	48	53	0.91	
<i>yoaW</i>	2,046,190	2,046,621	-	64	40	1.63	69	48	1.45	
<i>yoaZ</i>	2,046,885	2,047,517	-	49	51	0.97	63	62	1.02	
<i>penP</i>	2,047,743	2,048,663	+	464	455	1.02	652	615	1.06	
<i>yobA</i>	2,049,160	2,049,522	-	65	74	0.88	105	94	1.11	
<i>yobB</i>	2,049,899	2,050,162	+	99	118	0.83	115	139	0.83	AbrB regulon
<i>pps</i>	2,050,539	2,053,139	-	129	143	0.90	215	214	1.01	
<i>xynA</i>	2,053,809	2,054,450	-	1535	1399	1.10	1597	1456	1.10	
<i>yobD</i>	2,055,488	2,055,826	+	61	73	0.84	106	177	0.60	
<i>yozH</i>	2,055,860	2,056,180	-	23	22	1.05	20	20	1.03	
<i>yozI</i>	2,056,425	2,056,790	+	54	71	0.76	98	153	0.64	
<i>yobE</i>	2,057,012	2,057,671	+	114	146	0.78	117	134	0.87	
<i>yobF</i>	2,057,926	2,058,849	-	177	175	1.01	173	190	0.91	
<i>yozJ</i>	2,059,448	2,059,903	-	42	37	1.11	55	67	0.83	
<i>rapK</i>	2,061,361	2,062,476	+	495	434	1.14	751	864	0.87	AbrB regulon
<i>yobH</i>	2,062,721	2,063,332	-	54	56	0.97	49	51	0.96	
<i>yozK</i>	2,063,411	2,063,758	-	23	25	0.90	24	27	0.89	
<i>yozL</i>	2,063,751	2,064,044	-	16	24	0.64	19	19	0.96	
<i>yozM</i>	2,064,253	2,064,588	+	117	143	0.82	136	152	0.90	
<i>yobI</i>	2,064,635	2,068,240	-	600	374	1.61	574	589	0.97	
<i>yobJ</i>	2,069,455	2,070,297	-	361	270	1.33	874	1103	0.79	
<i>yobK</i>	2,070,497	2,070,955	-	216	173	1.24	394	409	0.96	
<i>yobL</i>	2,070,965	2,072,767	-	312	288	1.09	429	565	0.76	
<i>yobM</i>	2,072,869	2,073,357	-	421	382	1.10	580	517	1.12	
<i>yobN</i>	2,073,650	2,074,990	+	38	41	0.91	31	37	0.86	
<i>yobO</i>	2,075,417	2,077,837	+	178	186	0.96	171	151	1.14	AbrB regulon
<i>csaA</i>	2,078,425	2,078,757	-	267	341	0.78	434	607	0.71	
<i>yobQ</i>	2,078,822	2,079,547	-	167	197	0.85	354	527	0.67	
<i>yobR</i>	2,079,562	2,080,305	-	210	240	0.87	346	495	0.70	
<i>yobS</i>	2,080,383	2,080,958	-	60	66	0.91	102	120	0.85	
<i>yobT</i>	2,080,964	2,081,665	-	97	95	1.02	118	141	0.83	
<i>yobU</i>	2,081,742	2,082,224	-	82	80	1.02	68	72	0.94	
<i>yobV</i>	2,082,278	2,083,219	-	94	105	0.90	130	132	0.98	
<i>yobW</i>	2,083,425	2,083,970	+	36	44	0.82	36	39	0.92	
<i>yozA</i>	2,083,997	2,084,320	-	332	359	0.92	343	353	0.97	
<i>yocA</i>	2,084,514	2,085,191	+	776	531	1.46	1456	1323	1.10	
<i>yozB</i>	2,085,281	2,085,817	-	1098	820	1.34	701	644	1.09	
<i>yocB</i>	2,085,954	2,086,736	-	3620	2079	1.74	2011	733	2.74	
<i>yocC</i>	2,086,907	2,087,404	+	74	74	1.01	134	110	1.22	
<i>yocD</i>	2,087,468	2,088,445	+	318	338	0.94	490	515	0.95	AbrB regulon
<i>des</i>	2,088,607	2,089,665	+	321	384	0.83	296	377	0.78	
<i>yocF</i>	2,089,785	2,090,897	+	179	156	1.15	145	130	1.11	
<i>yocG</i>	2,090,916	2,091,515	+	236	195	1.21	218	194	1.13	
<i>yocH</i>	2,092,110	2,092,973	-	2335	1673	1.40	3901	3488	1.12	Spo0A regulon
<i>yocI</i>	2,093,221	2,094,996	-	217	199	1.09	310	324	0.96	
<i>yocJ</i>	2,095,561	2,096,187	-	784	800	0.98	806	777	1.04	
<i>yocK</i>	2,096,338	2,096,967	-	2890	2564	1.13	1219	676	1.80	
<i>yocL</i>	2,096,904	2,097,236	-	129	93	1.38	268	324	0.83	
<i>yocM</i>	2,097,528	2,098,004	-	98	72	1.35	141	181	0.78	
<i>yozN</i>	2,098,071	2,098,334	+	53	54	0.98	46	47	0.98	
<i>yocN</i>	2,098,339	2,098,572	+	45	39	1.15	49	42	1.17	
<i>yozO</i>	2,098,658	2,099,002	-	453	364	1.25	610	788	0.77	
<i>yozC</i>	2,099,359	2,099,562	-	399	320	1.25	451	451	1.00	
<i>dhaS</i>	2,099,792	2,101,279	+	911	1422	0.64	783	1110	0.71	

<i>sqhC</i>	2,101,380	2,103,278	+	68	74	0.92	61	75	0.82
<i>sodF</i>	2,103,268	2,104,113	+	92	98	0.94	81	94	0.86
<i>yocR</i>	2,104,146	2,105,483	-	287	309	0.93	354	409	0.87
<i>yocS</i>	2,105,702	2,106,667	+	479	607	0.79	523	521	1.00
<i>odhB</i>	2,106,717	2,107,970	-	4013	4814	0.83	4439	4785	0.93
<i>odhA</i>	2,107,986	2,110,811	-	3085	3750	0.82	3623	3989	0.91
<i>yojO</i>	2,111,039	2,113,024	-	313	250	1.25	620	608	1.02
<i>yojN</i>	2,112,966	2,113,880	-	259	218	1.19	426	454	0.94
<i>yojM</i>	2,113,944	2,114,534	-	292	315	0.93	418	528	0.79
<i>yojL</i>	2,114,627	2,115,871	-	1157	1358	0.85	1574	2013	0.78
<i>yojK</i>	2,116,253	2,117,470	-	179	162	1.10	279	267	1.05
<i>yojJ</i>	2,117,706	2,118,329	-	131	105	1.25	75	51	1.48
<i>yojI</i>	2,118,594	2,119,952	+	116	108	1.07	203	198	1.03
<i>yojH</i>	2,119,968	2,120,816	+	216	190	1.14	335	315	1.06
<i>yojG</i>	2,120,842	2,121,270	-	946	823	1.15	1570	1322	1.19
<i>yojF</i>	2,121,524	2,121,874	-	926	762	1.22	1223	1133	1.08
<i>yojE</i>	2,122,225	2,123,121	-	184	205	0.89	147	190	0.77
<i>yozR</i>	2,123,220	2,123,693	+	45	54	0.84	37	45	0.83
<i>yojC</i>	2,123,586	2,123,819	-	24	27	0.90	26	28	0.92
<i>yojB</i>	2,123,728	2,123,964	-	44	50	0.88	43	52	0.83
<i>yojA</i>	2,124,049	2,125,383	-	102	108	0.94	86	98	0.88
<i>yodA</i>	2,125,748	2,126,137	+	74	75	0.99	85	98	0.87
<i>yodB</i>	2,126,544	2,126,882	-	234	238	0.98	170	233	0.73
<i>yodC</i>	2,127,012	2,127,620	+	938	1132	0.83	1018	1132	0.90
<i>yodD</i>	2,127,663	2,128,265	-	146	196	0.74	114	176	0.65
<i>yodE</i>	2,128,281	2,129,192	-	181	215	0.84	188	286	0.66
<i>yodF</i>	2,129,576	2,131,066	+	721	796	0.90	1183	1278	0.93
<i>ctpA</i>	2,131,101	2,132,501	-	1405	1269	1.11	1917	1887	1.02
<i>yodH</i>	2,132,654	2,133,355	+	57	57	1.01	60	57	1.06
<i>yodI</i>	2,133,443	2,133,694	+	85	95	0.90	89	92	0.97
<i>yodJ</i>	2,133,765	2,134,586	-	543	443	1.22	932	786	1.18
<i>deoD</i>	2,134,669	2,135,370	-	740	752	0.98	1172	1192	0.98
<i>yodL</i>	2,135,737	2,136,054	-	234	183	1.28	260	219	1.19
<i>yodM</i>	2,136,112	2,136,723	-	162	105	1.54	180	133	1.35
<i>yozD</i>	2,136,801	2,136,977	-	66	61	1.08	57	55	1.04
<i>yodN</i>	2,137,236	2,137,916	-	53	58	0.91	53	54	0.97
<i>yozE</i>	2,138,067	2,138,291	-	241	243	0.99	380	290	1.31
<i>kamA</i>	2,138,652	2,140,067	-	55	59	0.93	46	53	0.88
<i>yodP</i>	2,140,096	2,140,923	-	53	53	0.99	53	53	0.99
<i>yodQ</i>	2,140,901	2,142,211	-	60	61	0.99	48	58	0.83
<i>yodR</i>	2,142,220	2,142,873	-	106	97	1.09	111	144	0.77
<i>yodS</i>	2,142,858	2,143,547	-	57	61	0.94	45	57	0.79
<i>yodT</i>	2,143,554	2,144,888	-	73	78	0.94	58	73	0.80
<i>cgeE</i>	2,145,211	2,145,990	-	542	507	1.07	305	345	0.89
<i>cgeD</i>	2,146,019	2,147,299	-	276	295	0.94	172	193	0.89
<i>cgeC</i>	2,147,364	2,147,669	-	22	26	0.84	25	25	0.99
<i>cgeA</i>	2,147,874	2,148,275	+	26	52	0.51	29	34	0.85
<i>cgeB</i>	2,148,282	2,149,235	+	82	99	0.84	71	87	0.82
<i>phy</i>	2,149,306	2,150,454	-	71	63	1.13	70	64	1.08
<i>yodU</i>	2,150,824	2,151,249	+	64	72	0.89	71	78	0.90
<i>yotN</i>	2,151,284	2,151,460	-	26	30	0.88	30	22	1.39
<i>yotM</i>	2,151,463	2,152,050	-	64	36	1.77	77	40	1.95
<i>yotL</i>	2,152,125	2,152,367	+	39	54	0.72	64	58	1.11
<i>yotK</i>	2,152,369	2,152,554	-	66	43	1.53	103	42	2.45
<i>yotJ</i>	2,152,638	2,152,850	-	35	22	1.62	51	22	2.32
<i>yotI</i>	2,152,916	2,153,278	-	51	33	1.55	75	37	2.00
<i>yotH</i>	2,153,275	2,153,448	-	69	57	1.20	79	57	1.40
<i>yotG</i>	2,153,464	2,153,781	-	45	33	1.36	51	31	1.66
<i>yotC</i>	2,154,256	2,154,447	-	61	45	1.36	63	41	1.52
<i>yotB</i>	2,154,491	2,155,318	-	70	45	1.55	80	42	1.89
<i>sspC</i>	2,155,437	2,155,655	+	35	45	0.79	40	46	0.87
<i>yosX</i>	2,155,955	2,156,308	-	92	53	1.74	125	60	2.08
<i>yosW</i>	2,156,539	2,156,880	-	56	40	1.39	63	46	1.38
<i>yosV</i>	2,157,027	2,157,317	-	47	34	1.40	63	34	1.86
<i>yosU</i>	2,157,637	2,157,882	+	30	31	0.97	41	38	1.09
<i>yosT</i>	2,157,922	2,158,371	-	164	119	1.37	177	123	1.44
<i>yosS</i>	2,158,466	2,158,894	-	140	75	1.86	140	72	1.95
<i>yosR</i>	2,158,940	2,159,182	-	93	51	1.81	118	48	2.48
<i>yosP</i>	2,159,182	2,160,976	-	269	190	1.41	442	344	1.28
<i>yosN</i>	2,161,309	2,164,812	-	89	54	1.65	114	57	2.01
<i>yosM</i>	2,164,775	2,165,164	-	38	32	1.19	55	32	1.73
<i>yosL</i>	2,165,170	2,165,523	-	52	32	1.62	68	34	2.03
<i>yosK</i>	2,165,611	2,165,811	-	85	46	1.84	146	53	2.73
<i>yosJ</i>	2,165,856	2,166,050	-	87	38	2.29	122	47	2.58
<i>yosH</i>	2,166,237	2,166,707	-	105	55	1.91	146	66	2.21
<i>yosG</i>	2,166,768	2,167,130	-	97	49	1.98	140	56	2.51
<i>yosE</i>	2,167,312	2,167,659	-	55	31	1.78	60	30	2.00
<i>yosD</i>	2,167,674	2,168,069	-	85	43	1.95	113	53	2.14
<i>yosC</i>	2,168,108	2,168,650	-	79	46	1.71	104	56	1.85
<i>yosB</i>	2,168,695	2,168,874	-	97	54	1.79	89	61	1.46
<i>yorZ</i>	2,169,228	2,169,440	-	72	33	2.16	115	40	2.91
<i>yorY</i>	2,169,507	2,169,689	-	28	27	1.02	44	20	2.20
<i>yorX</i>	2,169,702	2,169,929	-	71	40	1.78	102	49	2.10
<i>yorW</i>	2,169,969	2,170,334	-	74	33	2.23	108	45	2.39
<i>yorV</i>	2,170,337	2,170,555	-	82	39	2.08	133	46	2.86
<i>mbpP</i>	2,170,599	2,171,930	-	99	49	2.04	132	56	2.36
<i>yorS</i>	2,172,130	2,172,648	-	57	43	1.32	89	46	1.92
<i>yorR</i>	2,172,657	2,173,154	-	131	104	1.26	159	88	1.81
<i>yorQ</i>	2,173,154	2,173,309	-	235	206	1.14	309	187	1.65
<i>yorP</i>	2,173,302	2,173,517	-	163	143	1.14	182	123	1.48
<i>yorO</i>	2,173,550	2,173,747	-	209	150	1.39	203	143	1.42

AbrB regulon

AbrB regulon

<i>yorM</i>	2,174,048	2,174,764	-	56	38	1.48	75	48	1.56	
<i>yorL</i>	2,174,792	2,178,709	-	67	46	1.44	70	49	1.43	
<i>yorK</i>	2,178,722	2,180,452	-	53	36	1.46	67	41	1.62	
<i>yorJ</i>	2,180,452	2,181,588	-	52	33	1.59	68	37	1.82	
<i>yorI</i>	2,181,604	2,183,118	-	73	42	1.74	90	46	1.96	
<i>yorH</i>	2,183,133	2,183,603	-	74	40	1.84	106	50	2.11	
<i>yorG</i>	2,183,646	2,184,617	-	126	54	2.35	181	71	2.53	
<i>yorF</i>	2,184,700	2,185,614	-	132	49	2.69	179	81	2.22	
<i>yorE</i>	2,185,636	2,186,007	-	135	49	2.78	209	138	1.51	
<i>yorD</i>	2,186,181	2,186,495	-	1394	1469	0.95	1864	2305	0.81	AbrB regulon
<i>yorC</i>	2,186,572	2,186,952	-	355	185	1.92	414	280	1.48	
<i>yorB</i>	2,187,015	2,187,311	-	1456	780	1.87	1424	996	1.43	
<i>yorA</i>	2,187,400	2,189,160	-	178	105	1.71	132	74	1.79	
<i>yoqZ</i>	2,189,157	2,189,981	-	162	109	1.49	150	77	1.95	
<i>yoqY</i>	2,190,080	2,190,475	-	39	36	1.08	52	36	1.45	
<i>yoqX</i>	2,190,530	2,190,751	-	33	32	1.02	43	31	1.39	
<i>yoqW</i>	2,190,822	2,191,496	+	128	163	0.78	129	151	0.85	
<i>ligB</i>	2,191,566	2,192,378	+	28	29	0.97	31	31	0.99	
<i>yoqU</i>	2,192,444	2,192,857	-	43	34	1.29	53	41	1.30	
<i>yoqT</i>	2,193,023	2,193,172	+	18	19	0.91	19	21	0.94	
<i>yoqS</i>	2,193,249	2,193,596	-	77	49	1.58	85	65	1.30	
<i>yoqR</i>	2,193,598	2,193,954	-	65	37	1.73	76	49	1.56	
<i>yoqP</i>	2,193,914	2,194,255	-	65	52	1.26	72	55	1.32	
<i>yoqO</i>	2,194,369	2,194,743	+	112	145	0.77	212	193	1.10	
<i>yoqN</i>	2,194,760	2,194,978	-	90	60	1.52	81	66	1.23	
<i>yoqM</i>	2,195,182	2,195,460	+	299	268	1.12	171	151	1.13	AbrB regulon
<i>yoqL</i>	2,195,585	2,196,277	-	58	43	1.35	69	55	1.25	
<i>yoqK</i>	2,196,317	2,196,520	-	74	45	1.64	77	54	1.43	
<i>yoqJ</i>	2,196,540	2,197,055	-	97	62	1.58	93	66	1.40	
<i>yoqI</i>	2,197,266	2,197,460	-	69	45	1.55	59	48	1.24	
<i>yoqH</i>	2,197,509	2,197,961	-	68	53	1.27	71	52	1.38	
<i>yoqG</i>	2,198,044	2,198,301	-	81	54	1.49	90	71	1.27	
<i>yoqF</i>	2,198,346	2,198,549	-	59	54	1.10	67	44	1.50	
<i>yoqE</i>	2,198,558	2,198,722	-	116	70	1.65	107	99	1.08	
<i>yoqD</i>	2,198,776	2,199,531	-	76	59	1.28	91	73	1.24	
<i>yoqC</i>	2,199,572	2,199,979	-	51	47	1.10	67	51	1.32	
<i>yoqB</i>	2,199,986	2,200,324	-	57	44	1.29	74	54	1.38	
<i>yoqA</i>	2,200,321	2,200,671	-	99	76	1.30	118	84	1.40	
<i>yopZ</i>	2,200,684	2,200,887	-	85	60	1.41	75	73	1.02	
<i>yopY</i>	2,200,901	2,201,179	-	174	128	1.36	165	138	1.19	
<i>yopX</i>	2,201,176	2,201,580	-	91	74	1.23	86	80	1.07	
<i>yopW</i>	2,201,577	2,201,912	-	57	44	1.30	58	48	1.20	
<i>yopV</i>	2,202,001	2,202,195	-	55	51	1.07	99	104	0.95	
<i>yopU</i>	2,202,307	2,202,504	-	105	71	1.47	120	129	0.93	
<i>yopT</i>	2,202,574	2,202,792	-	313	188	1.67	333	310	1.07	
<i>yopS</i>	2,202,975	2,203,199	+	51	46	1.11	72	99	0.73	
<i>yopR</i>	2,203,388	2,204,365	-	420	396	1.06	575	583	0.99	
<i>yopQ</i>	2,204,389	2,205,771	-	455	435	1.04	535	629	0.85	
<i>yopP</i>	2,205,878	2,206,954	-	203	194	1.05	165	240	0.69	
<i>yopO</i>	2,206,944	2,207,156	-	123	99	1.24	84	100	0.84	
<i>yopN</i>	2,207,204	2,207,521	-	183	178	1.03	240	279	0.86	
<i>yopM</i>	2,207,524	2,207,724	-	139	105	1.32	128	154	0.83	
<i>yopK</i>	2,208,190	2,209,350	-	130	116	1.12	148	170	0.87	
<i>yopJ</i>	2,209,527	2,209,943	-	257	193	1.33	386	420	0.92	
<i>yopI</i>	2,209,945	2,210,478	-	356	270	1.32	337	374	0.90	
<i>yopH</i>	2,210,505	2,211,041	-	280	240	1.16	227	285	0.80	
<i>yopF</i>	2,211,222	2,211,437	-	147	133	1.11	169	233	0.72	
<i>yopE</i>	2,211,441	2,211,692	-	238	182	1.31	185	284	0.65	
<i>yopD</i>	2,212,279	2,212,674	-	556	472	1.18	551	573	0.96	
<i>yopC</i>	2,212,732	2,214,060	-	329	290	1.13	359	408	0.88	
<i>yopB</i>	2,214,168	2,214,395	-	51	50	1.02	62	67	0.92	
<i>yopA</i>	2,214,656	2,215,972	-	274	229	1.20	281	243	1.16	
<i>yonX</i>	2,216,329	2,216,835	-	47	36	1.31	45	35	1.29	
<i>yonV</i>	2,217,163	2,218,395	-	35	34	1.02	39	35	1.11	
<i>yonU</i>	2,218,477	2,218,665	-	1105	1105	1.00	1176	1069	1.10	
<i>yonT</i>	2,218,980	2,219,156	-	59	91	0.65	61	72	0.84	
<i>yonS</i>	2,219,531	2,220,142	-	297	297	1.00	530	611	0.87	
<i>yonR</i>	2,220,257	2,220,583	-	189	212	0.89	200	254	0.79	
<i>yonP</i>	2,221,536	2,221,730	+	47	30	1.59	72	32	2.28	
<i>yonO</i>	2,221,770	2,224,289	+	49	29	1.67	65	33	1.94	
<i>yonN</i>	2,224,533	2,224,811	+	162	78	2.07	279	120	2.32	
<i>yonK</i>	2,226,493	2,226,684	+	71	28	2.59	90	34	2.69	
<i>yonJ</i>	2,226,701	2,227,918	+	157	57	2.74	229	72	3.17	
<i>yonI</i>	2,227,952	2,228,362	-	210	202	1.04	234	245	0.96	
<i>yonH</i>	2,228,581	2,229,081	+	101	41	2.48	143	46	3.14	
<i>yonG</i>	2,229,184	2,230,104	+	47	38	1.22	53	34	1.56	
<i>yonF</i>	2,230,091	2,231,860	+	60	37	1.64	80	36	2.24	
<i>yonE</i>	2,231,878	2,233,398	+	96	44	2.16	135	54	2.49	
<i>yonD</i>	2,233,429	2,234,865	+	365	99	3.68	453	117	3.88	
<i>yonC</i>	2,234,890	2,235,426	+	239	72	3.33	349	83	4.22	
<i>yonB</i>	2,235,465	2,236,481	+	322	84	3.85	431	96	4.51	
<i>yonA</i>	2,236,517	2,236,987	+	355	86	4.12	493	113	4.37	
<i>yomZ</i>	2,237,002	2,237,397	+	214	51	4.18	312	64	4.87	
<i>yomY</i>	2,237,394	2,237,648	+	272	60	4.55	390	79	4.91	
<i>yomX</i>	2,237,632	2,238,282	+	258	59	4.37	363	73	5.00	
<i>yomW</i>	2,238,279	2,238,785	+	339	73	4.61	461	79	5.81	
<i>yomV</i>	2,238,782	2,239,492	+	245	59	4.12	344	69	4.97	
<i>yomU</i>	2,239,535	2,240,332	+	253	67	3.79	365	82	4.47	
<i>yomT</i>	2,240,961	2,241,188	+	74	44	1.69	111	43	2.60	
<i>yomS</i>	2,241,252	2,241,608	+	123	48	2.54	154	48	3.23	
<i>yomR</i>	2,241,610	2,242,827	+	161	58	2.78	215	55	3.92	

<i>yomQ</i>	2,242,838	2,243,188	+	206	65	3.18	266	75	3.56	
<i>yomP</i>	2,243,185	2,243,376	+	92	32	2.87	99	33	3.03	
<i>yomO</i>	2,243,426	2,243,926	+	101	39	2.56	119	39	3.07	
<i>yomN</i>	2,243,910	2,244,329	+	152	55	2.78	224	61	3.70	
<i>yomM</i>	2,244,343	2,245,344	+	119	49	2.42	164	50	3.29	
<i>yoZP</i>	2,245,347	2,245,676	-	47	53	0.89	75	77	0.97	
<i>yomL</i>	2,245,852	2,246,538	-	869	854	1.02	1372	1120	1.22	
<i>yomK</i>	2,247,085	2,247,531	+	2114	2082	1.02	1274	1425	0.89	
<i>yomJ</i>	2,247,613	2,248,296	+	1201	1211	0.99	942	1070	0.88	
<i>yomI</i>	2,248,350	2,255,207	+	60	43	1.41	70	44	1.59	AbrB regulon
<i>yomH</i>	2,255,258	2,256,016	+	38	25	1.53	59	27	2.21	
<i>yomG</i>	2,256,028	2,258,655	+	73	49	1.48	91	54	1.69	
<i>yomF</i>	2,258,671	2,259,492	+	57	33	1.74	76	36	2.11	
<i>yomE</i>	2,259,529	2,261,463	+	62	38	1.62	86	37	2.31	
<i>yomD</i>	2,261,633	2,262,457	+	51	26	2.01	70	27	2.58	
<i>blyA</i>	2,262,685	2,263,788	+	51	32	1.59	70	32	2.18	
<i>bhlA</i>	2,263,876	2,264,088	+	38	25	1.52	38	28	1.37	
<i>bhlB</i>	2,264,099	2,264,365	+	23	24	0.96	25	20	1.23	
<i>bdbB</i>	2,264,421	2,264,867	-	189	200	0.95	396	480	0.83	AbrB regulon
<i>yoIJ</i>	2,264,864	2,266,132	-	500	372	1.35	673	816	0.83	AbrB regulon
<i>bdbA</i>	2,266,132	2,266,545	-	302	179	1.68	387	550	0.70	AbrB regulon
<i>sunT</i>	2,266,542	2,268,659	-	262	172	1.53	394	523	0.75	AbrB regulon
<i>sunA</i>	2,268,717	2,268,887	-	4302	4131	1.04	6893	5382	1.28	AbrB regulon
<i>yoIF</i>	2,269,184	2,269,501	-	1089	1343	0.81	1073	1395	0.77	
<i>uvrX</i>	2,269,603	2,270,853	-	49	55	0.90	53	50	1.08	
<i>yoID</i>	2,270,846	2,271,178	-	25	29	0.87	31	28	1.10	
<i>yoIC</i>	2,271,352	2,271,687	+	188	188	1.00	221	245	0.90	AbrB regulon
<i>yoIB</i>	2,271,730	2,272,086	-	1621	1920	0.84	1604	1822	0.88	AbrB regulon
<i>yoIA</i>	2,272,092	2,272,559	-	4304	4869	0.88	3786	4257	0.89	AbrB regulon
<i>yoKL</i>	2,273,185	2,273,718	-	249	207	1.20	375	421	0.89	AbrB regulon
<i>yoK</i>	2,273,754	2,274,332	-	378	302	1.25	553	592	0.93	AbrB regulon
<i>yoKJ</i>	2,274,396	2,274,893	-	419	360	1.16	683	789	0.87	AbrB regulon
<i>yoKI</i>	2,274,902	2,276,617	-	488	428	1.14	723	865	0.84	AbrB regulon
<i>yoKH</i>	2,276,717	2,277,274	-	512	455	1.13	760	667	1.14	
<i>yoKG</i>	2,277,798	2,278,871	-	1882	1608	1.17	1658	1447	1.15	
<i>yoKF</i>	2,279,173	2,280,063	+	576	549	1.05	921	870	1.06	
<i>yoKE</i>	2,280,077	2,280,559	+	165	126	1.31	255	234	1.09	
<i>yoKD</i>	2,280,863	2,281,681	+	387	261	1.48	383	374	1.02	
<i>yoKC</i>	2,282,332	2,282,847	-	104	105	0.98	105	124	0.85	
<i>yoKB</i>	2,283,054	2,283,764	-	212	225	0.94	212	250	0.85	
<i>yoKA</i>	2,283,967	2,285,604	+	127	103	1.23	232	285	0.81	
<i>ypqP</i>	2,285,626	2,286,249	+	111	94	1.19	231	239	0.96	
<i>ypqQ</i>	2,286,293	2,286,724	-	497	538	0.92	646	702	0.92	
<i>msrA</i>	2,286,725	2,287,258	-	663	680	0.97	551	625	0.88	
<i>ypoP</i>	2,287,390	2,287,815	+	470	490	0.96	457	620	0.74	
<i>ypnP</i>	2,287,865	2,289,202	-	67	67	0.99	78	90	0.87	
<i>ypmT</i>	2,289,274	2,289,468	-	105	102	1.03	187	171	1.10	
<i>ypmS</i>	2,289,481	2,290,044	-	360	384	0.94	462	568	0.81	
<i>ypmR</i>	2,290,054	2,290,821	-	454	528	0.86	557	777	0.72	
<i>ypmQ</i>	2,290,899	2,291,480	-	598	671	0.89	666	910	0.73	
<i>ypmP</i>	2,291,628	2,291,879	-	1243	1356	0.92	1812	2059	0.88	
<i>ilvA</i>	2,291,965	2,293,233	-	1044	1267	0.82	1244	1668	0.75	
<i>ypIP</i>	2,293,482	2,294,477	+	545	483	1.13	298	477	0.62	
<i>ypIQ</i>	2,294,498	2,295,139	+	793	717	1.11	408	543	0.75	
<i>ypkP</i>	2,295,178	2,295,798	-	309	263	1.17	450	459	0.98	
<i>dfrA</i>	2,295,799	2,296,305	-	303	240	1.26	377	405	0.93	
<i>thyB</i>	2,296,302	2,297,096	-	309	310	1.00	404	454	0.89	
<i>ypjQ</i>	2,297,180	2,297,713	-	706	837	0.84	781	917	0.85	
<i>ypjP</i>	2,297,731	2,298,342	-	1013	996	1.02	729	895	0.81	
<i>ypiP</i>	2,298,602	2,299,120	-	246	234	1.05	283	286	0.99	
<i>ypHP</i>	2,299,417	2,299,851	-	647	565	1.14	963	952	1.01	
<i>ilvD</i>	2,299,958	2,301,634	-	1415	1797	0.79	2105	2405	0.88	
<i>ypgR</i>	2,301,923	2,303,056	-	743	630	1.18	1108	1032	1.07	
<i>ypgQ</i>	2,303,116	2,303,733	-	397	382	1.04	640	528	1.21	
<i>bsaA</i>	2,303,749	2,304,231	-	270	262	1.03	424	379	1.12	
<i>metA</i>	2,304,574	2,305,248	+	255	292	0.87	283	444	0.64	
<i>ugtP</i>	2,305,711	2,306,859	+	582	566	1.03	719	971	0.74	
<i>cspD</i>	2,307,102	2,307,302	+	5299	5873	0.90	7133	6563	1.09	
<i>degR</i>	2,307,354	2,307,536	+	438	388	1.13	609	466	1.31	SigD regulon
<i>ypzA</i>	2,307,692	2,307,961	-	76	89	0.86	59	79	0.74	
<i>ypeQ</i>	2,307,989	2,308,171	-	99	92	1.08	169	181	0.94	
<i>ypeP</i>	2,308,164	2,308,526	-	247	235	1.05	275	245	1.12	
<i>ypdP</i>	2,308,927	2,309,616	+	191	190	1.01	155	176	0.88	
<i>ypdQ</i>	2,309,616	2,310,014	+	313	280	1.12	338	358	0.94	
<i>ypcP</i>	2,310,192	2,311,082	-	300	275	1.09	244	337	0.73	
<i>ypbS</i>	2,311,404	2,311,661	-	840	1103	0.76	1390	1426	0.97	
<i>ypbR</i>	2,311,726	2,315,307	-	316	291	1.09	651	547	1.19	
<i>ypbQ</i>	2,315,643	2,316,149	-	36	46	0.78	45	51	0.88	
<i>bcsA</i>	2,316,153	2,317,250	-	35	39	0.91	36	45	0.79	
<i>pbuX</i>	2,317,324	2,318,640	-	380	458	0.83	866	1113	0.78	
<i>xpt</i>	2,318,637	2,319,221	-	573	675	0.85	1279	1584	0.81	
<i>ypwA</i>	2,319,552	2,321,057	-	1347	1271	1.06	1513	1266	1.20	
<i>kdgT</i>	2,321,169	2,322,161	-	160	195	0.82	127	163	0.78	
<i>kdgA</i>	2,322,206	2,322,796	-	150	199	0.75	150	187	0.80	
<i>kdgK</i>	2,322,798	2,323,772	-	229	288	0.80	263	313	0.84	
<i>kdgR</i>	2,323,810	2,324,829	-	288	325	0.89	299	404	0.74	
<i>kduI</i>	2,325,051	2,325,878	+	581	718	0.81	646	822	0.79	
<i>kduD</i>	2,325,880	2,326,644	+	276	348	0.79	280	361	0.78	
<i>ypvA</i>	2,326,685	2,328,610	-	366	314	1.17	501	480	1.04	
<i>ypTA</i>	2,328,712	2,328,903	-	107	105	1.02	194	196	0.99	
<i>ypsC</i>	2,329,272	2,330,429	-	579	505	1.15	744	854	0.87	

<i>ypsB</i>	2,330,976	2,331,272	-	2516	2577	0.98	2377	2378	1.00	
<i>ypsA</i>	2,331,350	2,331,892	-	366	282	1.30	473	471	1.00	
<i>cotD</i>	2,331,981	2,332,208	-	1096	740	1.48	1081	958	1.13	Spo0A regulon
<i>yprB</i>	2,332,521	2,333,762	-	1046	622	1.68	901	588	1.53	
<i>yprA</i>	2,333,778	2,336,027	-	379	243	1.56	659	484	1.36	
<i>ypqE</i>	2,336,130	2,336,636	-	1351	1002	1.35	1972	1785	1.10	
<i>ypqA</i>	2,336,774	2,337,193	+	38	37	1.04	32	37	0.86	
<i>yppG</i>	2,337,214	2,337,591	-	30	33	0.91	36	35	1.05	
<i>yppF</i>	2,337,779	2,337,967	+	162	222	0.73	104	158	0.66	Spo0A regulon
<i>yppE</i>	2,338,006	2,338,377	-	165	132	1.25	301	309	0.97	
<i>yppD</i>	2,338,423	2,338,668	-	45	50	0.90	42	52	0.79	Spo0A regulon
<i>yppC</i>	2,338,996	2,339,958	-	49	51	0.95	44	49	0.89	
<i>recU</i>	2,339,999	2,340,619	+	1071	670	1.60	1273	1197	1.06	
<i>ponA</i>	2,340,641	2,343,385	+	1480	1106	1.34	2113	1814	1.16	
<i>ypoC</i>	2,343,461	2,343,955	-	302	295	1.02	441	459	0.96	
<i>nth</i>	2,343,952	2,344,611	-	531	504	1.05	693	688	1.01	
<i>dnaD</i>	2,344,630	2,345,328	-	803	763	1.05	947	946	1.00	
<i>asnS</i>	2,345,421	2,346,713	-	1551	1541	1.01	1921	2096	0.92	
<i>aspB</i>	2,346,857	2,348,038	-	1704	1669	1.02	2800	2757	1.02	
<i>ypmB</i>	2,348,061	2,348,546	-	2264	2114	1.07	3055	3228	0.95	
<i>ypmA</i>	2,348,555	2,348,725	-	665	456	1.46	1092	1270	0.86	
<i>dinG</i>	2,348,868	2,351,663	-	441	342	1.29	834	924	0.90	
<i>panD</i>	2,351,789	2,352,172	-	928	868	1.07	863	839	1.03	
<i>panC</i>	2,352,174	2,353,034	-	1455	1386	1.05	1945	1685	1.15	
<i>panB</i>	2,353,036	2,353,869	-	1440	1401	1.03	1945	1721	1.13	
<i>birA</i>	2,354,115	2,355,092	-	367	284	1.29	970	834	1.16	
<i>cca</i>	2,355,077	2,356,270	-	466	344	1.36	1038	911	1.14	
<i>ypjH</i>	2,356,275	2,357,408	-	443	336	1.32	1024	924	1.11	
<i>ypjG</i>	2,357,440	2,358,114	-	420	295	1.42	928	860	1.08	
<i>mgsA</i>	2,358,107	2,358,520	-	565	415	1.36	1090	981	1.11	
<i>dapB</i>	2,358,536	2,359,339	-	484	351	1.38	998	897	1.11	
<i>ypjD</i>	2,359,351	2,359,686	-	478	393	1.22	844	837	1.01	
<i>ypjC</i>	2,360,051	2,360,698	+	238	204	1.17	379	338	1.12	
<i>ypjB</i>	2,360,740	2,361,534	-	227	204	1.11	323	318	1.02	
<i>ypjA</i>	2,361,603	2,362,160	-	208	192	1.08	236	233	1.01	
<i>qcrC</i>	2,362,307	2,363,074	-	1510	2021	0.75	1371	1764	0.78	
<i>qcrB</i>	2,363,109	2,363,783	-	1677	2190	0.77	1554	1963	0.79	
<i>qcrA</i>	2,363,785	2,364,288	-	2146	2804	0.77	2160	2558	0.84	
<i>ypiF</i>	2,364,431	2,364,877	-	355	530	0.67	432	622	0.69	
<i>ypiB</i>	2,364,932	2,365,471	-	1345	1897	0.71	1059	1180	0.90	
<i>ypiA</i>	2,365,543	2,366,814	-	427	323	1.32	481	402	1.20	
<i>aroE</i>	2,367,150	2,368,436	-	760	884	0.86	1721	1937	0.89	
<i>tyrA</i>	2,368,447	2,369,562	-	487	553	0.88	1826	2153	0.85	
<i>hisC</i>	2,369,611	2,370,693	-	803	734	1.09	1624	1997	0.81	
<i>trpA</i>	2,370,704	2,371,507	-	502	400	1.26	872	1205	0.72	
<i>trpB</i>	2,371,500	2,372,702	-	149	164	0.91	178	200	0.89	
<i>trpF</i>	2,372,683	2,373,330	-	149	159	0.94	172	189	0.91	
<i>trpC</i>	2,373,335	2,374,087	-	118	120	0.98	109	124	0.88	
<i>trpD</i>	2,374,080	2,375,096	-	145	146	0.99	110	134	0.82	
<i>trpE</i>	2,375,068	2,376,615	-	143	136	1.05	122	183	0.67	
<i>aroH</i>	2,376,831	2,377,214	-	1087	1281	0.85	2020	2459	0.82	
<i>aroB</i>	2,377,211	2,378,299	-	1042	1257	0.83	2204	2673	0.82	
<i>aroF</i>	2,378,361	2,379,470	-	778	979	0.79	1904	2392	0.80	
<i>cheR</i>	2,379,545	2,380,315	-	296	398	0.74	388	489	0.79	
<i>ndk</i>	2,380,552	2,381,001	-	1117	1789	0.62	1111	1542	0.72	
<i>hepT</i>	2,381,117	2,382,163	-	550	507	1.08	903	1294	0.70	
<i>menH</i>	2,382,105	2,382,806	-	883	830	1.06	1181	1577	0.75	
<i>hepS</i>	2,382,813	2,383,568	-	576	622	0.93	845	1255	0.67	
<i>mtrB</i>	2,383,731	2,383,958	-	1078	1142	0.94	1139	1474	0.77	
<i>mtrA</i>	2,383,980	2,384,552	-	1149	1220	0.94	1244	1369	0.91	
<i>hbs</i>	2,384,740	2,385,018	-	4989	5376	0.93	4469	4400	1.02	
<i>spoIVA</i>	2,385,392	2,386,870	-	70	82	0.85	76	90	0.84	
<i>yphF</i>	2,387,051	2,387,785	-	418	496	0.84	581	745	0.78	AbrB regulon
<i>yphE</i>	2,387,807	2,388,010	-	590	658	0.90	821	1018	0.81	AbrB regulon
<i>gpsA</i>	2,388,348	2,389,385	-	1181	1070	1.10	1483	1365	1.09	
<i>yphC</i>	2,389,403	2,390,713	-	1068	908	1.18	1264	1233	1.03	
<i>seaA</i>	2,391,058	2,391,951	-	129	110	1.17	107	107	1.00	
<i>yphA</i>	2,391,948	2,392,547	-	115	99	1.16	91	83	1.10	
<i>ypgA</i>	2,392,799	2,393,437	-	595	548	1.09	689	788	0.87	
<i>ypjD</i>	2,393,861	2,395,009	-	4551	4720	0.96	4350	4289	1.01	
<i>cmk</i>	2,395,242	2,395,916	-	573	652	0.88	635	907	0.70	
<i>ypjB</i>	2,395,995	2,396,171	-	136	125	1.08	166	189	0.88	
<i>ypjA</i>	2,396,216	2,396,869	-	298	315	0.95	381	461	0.83	
<i>ypeB</i>	2,396,962	2,398,314	-	72	68	1.05	62	68	0.91	
<i>sleB</i>	2,398,349	2,399,266	-	58	59	0.98	47	54	0.86	
<i>ypdC</i>	2,399,405	2,400,061	-	217	191	1.14	261	330	0.79	
<i>ypdA</i>	2,400,181	2,401,155	-	608	554	1.10	891	1032	0.86	
<i>gudB</i>	2,401,264	2,402,544	-	2068	1938	1.07	2488	2356	1.06	
<i>yphH</i>	2,402,700	2,403,284	-	1060	1260	0.84	879	937	0.94	
<i>yphG</i>	2,403,443	2,404,222	-	142	151	0.94	285	243	1.18	
<i>yphF</i>	2,404,308	2,404,751	-	219	207	1.05	242	326	0.74	
<i>yphE</i>	2,404,814	2,405,536	-	787	743	1.06	882	1078	0.82	
<i>yphD</i>	2,405,487	2,406,056	-	396	323	1.23	400	495	0.81	
<i>recQ</i>	2,406,116	2,407,606	-	611	534	1.14	672	767	0.88	
<i>yphB</i>	2,407,599	2,408,657	-	255	243	1.05	273	348	0.78	
<i>fer</i>	2,408,923	2,409,171	+	1279	1451	0.88	1362	1530	0.89	
<i>ypaA</i>	2,409,211	2,409,783	-	379	481	0.79	182	204	0.89	
<i>ypzE</i>	2,409,889	2,410,053	-	786	923	0.85	226	300	0.75	
<i>serA</i>	2,410,280	2,411,857	+	1926	2411	0.80	3177	3836	0.83	
<i>aroC</i>	2,411,900	2,412,667	-	379	327	1.16	387	387	1.00	
<i>rsiX</i>	2,412,779	2,413,885	-	556	551	1.01	753	866	0.87	

<i>sigX</i>	2,413,821	2,414,405	-	676	768	0.88	953	1086	0.88	
<i>resE</i>	2,414,609	2,416,378	-	1361	1319	1.03	1012	1001	1.01	
<i>resD</i>	2,416,375	2,417,097	-	1565	1483	1.06	989	1049	0.94	
<i>resC</i>	2,417,178	2,418,236	-	970	860	1.13	446	505	0.88	
<i>resB</i>	2,418,372	2,420,000	-	907	750	1.21	623	716	0.87	
<i>resA</i>	2,419,997	2,420,542	-	913	796	1.15	912	969	0.94	
<i>rluB</i>	2,420,674	2,421,363	-	889	808	1.10	1102	949	1.16	
<i>spmB</i>	2,421,455	2,421,994	-	34	36	0.94	38	44	0.86	
<i>spmA</i>	2,421,999	2,422,589	-	87	83	1.05	81	100	0.81	
<i>dacB</i>	2,422,577	2,423,725	-	61	58	1.05	75	78	0.95	
<i>ypuI</i>	2,423,848	2,424,387	-	193	152	1.27	252	271	0.93	
<i>ypuH</i>	2,424,442	2,425,035	-	411	313	1.31	591	651	0.91	
<i>ypuG</i>	2,425,025	2,425,780	-	295	261	1.13	477	538	0.89	
<i>ypuF</i>	2,426,061	2,426,585	+	91	86	1.06	82	91	0.90	
<i>ribT</i>	2,426,599	2,426,973	-	1167	1180	0.99	1421	1574	0.90	
<i>ribH</i>	2,427,086	2,427,550	-	1072	896	1.20	1237	1158	1.07	
<i>ribA</i>	2,427,583	2,428,779	-	1012	809	1.25	1026	1005	1.02	
<i>ribE</i>	2,428,794	2,429,441	-	853	702	1.22	979	909	1.08	
<i>ribD</i>	2,429,452	2,430,537	-	930	847	1.10	947	873	1.09	
<i>ypuD</i>	2,430,930	2,431,274	-	521	541	0.96	531	275	1.93	
<i>sipS</i>	2,431,509	2,432,063	-	659	580	1.14	806	893	0.90	
<i>ypzC</i>	2,432,330	2,432,566	+	21	28	0.73	22	22	1.00	
<i>ypuC</i>	2,432,969	2,433,358	-	120	90	1.33	83	74	1.12	
<i>ypuB</i>	2,433,336	2,433,539	-	82	85	0.96	79	67	1.19	
<i>ypzD</i>	2,434,205	2,434,417	+	15	25	0.60	19	20	0.92	
<i>ppiB</i>	2,434,553	2,434,984	-	1158	1053	1.10	1450	1384	1.05	
<i>ypuA</i>	2,435,238	2,436,110	+	469	399	1.17	986	900	1.10	
<i>lysA</i>	2,436,139	2,437,458	-	736	616	1.19	1305	1217	1.07	
<i>spoVAF</i>	2,437,564	2,439,042	-	141	121	1.17	172	156	1.10	
<i>spoVAE</i>	2,438,993	2,439,964	-	66	66	0.99	71	73	0.98	
<i>spoVAD</i>	2,439,966	2,440,982	-	57	59	0.97	47	55	0.86	
<i>spoVAC</i>	2,440,995	2,441,447	-	27	31	0.87	25	27	0.94	
<i>spoVAB</i>	2,441,459	2,441,884	-	41	48	0.86	33	40	0.83	
<i>spoVAA</i>	2,441,894	2,442,496	-	20	25	0.77	23	23	0.98	
<i>sigF</i>	2,442,618	2,443,385	-	325	350	0.93	273	298	0.92	AbrB regulon
<i>spoIIAB</i>	2,443,397	2,443,837	-	336	369	0.91	280	287	0.97	AbrB regulon
<i>spoIIAA</i>	2,443,834	2,444,187	-	495	575	0.86	448	436	1.03	Spo0A and AbrB regulon
<i>dacF</i>	2,444,283	2,445,452	-	67	70	0.95	54	66	0.82	AbrB regulon
<i>punA</i>	2,445,607	2,446,422	-	538	508	1.06	1054	1004	1.05	
<i>drm</i>	2,446,435	2,447,619	-	616	537	1.15	920	914	1.01	
<i>ripX</i>	2,447,780	2,448,670	-	595	471	1.26	677	743	0.91	
<i>fur</i>	2,449,029	2,449,478	-	644	556	1.16	532	560	0.95	
<i>spoIIM</i>	2,449,591	2,450,235	-	30	32	0.94	34	37	0.93	
<i>yqkK</i>	2,450,336	2,450,551	-	80	78	1.03	103	93	1.11	
<i>mleA</i>	2,450,651	2,451,970	-	226	262	0.86	261	299	0.87	
<i>mleN</i>	2,451,988	2,453,394	-	134	165	0.81	169	190	0.89	
<i>ansB</i>	2,453,535	2,454,962	-	254	230	1.10	294	291	1.01	
<i>ansA</i>	2,455,007	2,455,996	-	274	260	1.05	388	378	1.03	
<i>ansR</i>	2,456,178	2,456,528	+	157	149	1.06	120	154	0.78	
<i>yqxK</i>	2,456,537	2,457,421	-	675	593	1.14	613	548	1.12	
<i>nudF</i>	2,457,698	2,458,255	-	1068	918	1.16	1153	1054	1.09	
<i>yqkF</i>	2,458,515	2,459,435	+	427	328	1.30	932	845	1.10	
<i>yqkE</i>	2,459,467	2,459,691	-	40	41	0.98	51	53	0.97	
<i>yqkD</i>	2,459,853	2,460,770	+	100	89	1.13	101	109	0.93	
<i>yqkC</i>	2,460,810	2,461,049	-	165	191	0.86	719	796	0.90	
<i>yqkB</i>	2,461,062	2,461,385	-	982	971	1.01	1327	1492	0.89	
<i>yqkA</i>	2,461,382	2,462,413	-	540	553	0.98	1084	1295	0.84	
<i>yqjZ</i>	2,462,406	2,462,750	-	419	482	0.87	812	1071	0.76	
<i>yqjY</i>	2,462,760	2,463,230	-	370	398	0.93	609	853	0.71	
<i>yqjX</i>	2,463,416	2,463,754	-	63	51	1.24	65	66	0.98	
<i>yqjW</i>	2,463,751	2,464,989	-	90	87	1.03	85	89	0.95	
<i>yqzH</i>	2,465,155	2,465,361	+	159	145	1.10	317	276	1.15	
<i>yqjV</i>	2,465,910	2,467,142	+	163	149	1.10	187	186	1.01	
<i>yqjU</i>	2,467,160	2,467,351	+	212	189	1.12	288	282	1.02	
<i>yqjT</i>	2,467,348	2,467,734	-	514	502	1.02	753	730	1.03	
<i>coaA</i>	2,467,738	2,468,697	-	438	454	0.96	561	575	0.98	
<i>dsdA</i>	2,468,769	2,470,115	-	299	247	1.21	476	461	1.03	
<i>yqjQ</i>	2,470,191	2,470,970	-	258	216	1.19	402	367	1.10	
<i>yqjP</i>	2,470,976	2,471,935	-	162	147	1.10	185	197	0.94	
<i>proI</i>	2,472,340	2,473,176	+	175	201	0.87	224	287	0.78	
<i>yqjN</i>	2,473,217	2,474,860	-	313	279	1.12	349	307	1.14	
<i>yqjM</i>	2,475,032	2,476,048	+	120	135	0.89	161	183	0.88	
<i>yqjL</i>	2,476,158	2,476,919	+	171	242	0.71	343	383	0.90	
<i>yqjK</i>	2,477,195	2,478,118	-	231	222	1.04	289	324	0.89	
<i>zwf</i>	2,478,345	2,479,814	+	2006	1737	1.15	2161	2101	1.03	
<i>yqjI</i>	2,479,937	2,481,346	-	2834	3121	0.91	2865	3204	0.89	
<i>yqjH</i>	2,481,456	2,482,700	-	281	212	1.33	244	243	1.00	
<i>yqzJ</i>	2,482,773	2,483,060	+	1025	1316	0.78	738	859	0.86	
<i>yqjG</i>	2,483,091	2,483,918	+	770	867	0.89	565	631	0.90	
<i>yqjF</i>	2,484,098	2,484,826	+	271	324	0.84	102	68	1.49	
<i>yqjE</i>	2,484,867	2,485,982	-	1207	1141	1.06	1749	1777	0.98	
<i>yqjD</i>	2,486,000	2,487,520	-	953	857	1.11	1187	1217	0.98	
<i>yqjC</i>	2,487,517	2,487,939	-	62	64	0.98	51	60	0.85	
<i>yqjB</i>	2,488,141	2,488,671	-	58	59	0.98	85	73	1.16	
<i>yqjA</i>	2,488,723	2,489,691	-	266	244	1.09	370	410	0.90	
<i>yqiZ</i>	2,489,762	2,490,484	-	513	517	0.99	1408	1820	0.77	
<i>yqiY</i>	2,490,477	2,491,136	-	315	290	1.09	1000	1355	0.74	
<i>yqiX</i>	2,491,217	2,491,984	-	442	353	1.25	1076	1789	0.60	
<i>yqiW</i>	2,492,253	2,492,690	-	1018	987	1.03	1265	1427	0.89	
<i>bmrU</i>	2,492,853	2,493,746	+	2326	1839	1.26	1073	399	2.69	
<i>bmr</i>	2,493,847	2,495,016	+	2152	1502	1.43	497	284	1.75	

<i>bmrR</i>	2,495,089	2,495,925	+	439	392	1.12	178	151	1.18	
<i>bkdB</i>	2,495,987	2,497,261	-	575	812	0.71	603	656	0.92	
<i>bkdAB</i>	2,497,284	2,498,267	-	898	1180	0.76	853	968	0.88	
<i>bkdAA</i>	2,498,281	2,499,273	-	835	1118	0.75	838	940	0.89	
<i>lpdV</i>	2,499,347	2,500,720	-	642	838	0.77	605	707	0.86	
<i>buk</i>	2,500,741	2,501,832	-	558	733	0.76	471	651	0.72	
<i>bcd</i>	2,501,851	2,502,945	-	872	1202	0.73	634	809	0.78	
<i>ptb</i>	2,502,957	2,503,856	-	657	904	0.73	328	509	0.64	
<i>bkdR</i>	2,503,981	2,506,059	-	619	532	1.16	440	419	1.05	
<i>yqzF</i>	2,506,212	2,506,448	+	434	449	0.97	356	474	0.75	
<i>yqiQ</i>	2,506,490	2,507,395	-	95	87	1.09	74	86	0.87	
<i>mmgE</i>	2,507,413	2,508,831	-	72	65	1.12	64	65	0.98	
<i>mmgD</i>	2,508,846	2,509,964	-	76	77	1.00	61	69	0.88	
<i>mmgC</i>	2,509,998	2,511,134	-	84	82	1.02	68	77	0.88	
<i>mmgB</i>	2,511,162	2,511,896	-	61	64	0.96	50	62	0.81	
<i>mmgA</i>	2,512,046	2,513,227	-	85	92	0.92	62	82	0.75	
<i>yqiK</i>	2,513,365	2,514,084	-	167	148	1.13	214	197	1.09	
<i>yqiI</i>	2,514,163	2,514,783	-	126	120	1.05	113	122	0.93	
<i>yqiH</i>	2,514,798	2,515,091	-	48	49	0.98	47	54	0.88	
<i>yqiG</i>	2,515,623	2,516,741	+	290	273	1.06	358	320	1.12	
<i>spo0A</i>	2,517,257	2,518,060	-	924	805	1.15	859	889	0.97	Spo0A regulon
<i>spoIVB</i>	2,518,336	2,519,613	-	70	72	0.96	66	80	0.83	
<i>recN</i>	2,519,788	2,521,518	-	421	406	1.04	771	807	0.96	
<i>ahrC</i>	2,521,555	2,522,004	-	518	496	1.04	894	911	0.98	
<i>yqxC</i>	2,522,139	2,522,948	-	756	685	1.10	1284	1470	0.87	
<i>dxs</i>	2,522,945	2,524,846	-	1262	1195	1.06	1601	1686	0.95	
<i>yqiD</i>	2,525,093	2,525,911	-	538	419	1.29	881	791	1.11	
<i>yqiC</i>	2,525,901	2,526,065	-	903	644	1.40	1300	1366	0.95	
<i>yqiB</i>	2,526,151	2,527,497	-	547	366	1.50	763	746	1.02	
<i>folD</i>	2,527,635	2,528,486	-	1606	1362	1.18	1663	1732	0.96	
<i>nusB</i>	2,528,498	2,528,893	-	1815	1659	1.09	2108	2113	1.00	
<i>yqhY</i>	2,529,157	2,529,564	-	3103	3109	1.00	3252	3195	1.02	
<i>accC</i>	2,529,585	2,530,937	-	3699	3509	1.05	3436	3267	1.05	
<i>accB</i>	2,530,949	2,531,428	-	2011	1971	1.02	2202	2576	0.86	
<i>spoIIIAH</i>	2,531,584	2,532,240	-	78	78	0.99	73	84	0.86	
<i>spoIIIAG</i>	2,532,241	2,532,930	-	50	50	1.01	40	47	0.84	
<i>spoIIIAF</i>	2,532,923	2,533,543	-	46	45	1.02	37	40	0.93	
<i>spoIIIAE</i>	2,533,540	2,534,757	-	59	61	0.97	47	51	0.91	
<i>spoIIHAD</i>	2,534,776	2,535,177	-	25	32	0.76	27	27	1.01	
<i>spoIIAAC</i>	2,535,184	2,535,390	-	20	30	0.67	30	31	0.98	
<i>spoIIIAB</i>	2,535,413	2,535,928	-	78	80	0.98	67	71	0.95	
<i>spoIIIAA</i>	2,535,922	2,536,845	-	63	64	0.99	48	57	0.84	
<i>yqhV</i>	2,536,921	2,537,202	-	22	30	0.74	28	31	0.91	
<i>efp</i>	2,537,347	2,537,904	-	1558	1713	0.91	2347	2433	0.96	
<i>yqhT</i>	2,537,929	2,538,990	-	2308	2413	0.96	2661	2743	0.97	
<i>yqhS</i>	2,538,987	2,539,433	-	1648	1615	1.02	1613	1644	0.98	
<i>yqhR</i>	2,539,520	2,540,056	-	78	80	0.97	86	67	1.29	
<i>yqhQ</i>	2,540,283	2,541,239	+	991	916	1.08	443	443	1.00	
<i>yqhP</i>	2,541,279	2,541,674	+	1098	1190	0.92	388	461	0.84	
<i>yqhO</i>	2,541,671	2,542,546	-	64	64	0.99	58	68	0.86	
<i>mntR</i>	2,542,672	2,543,100	-	468	406	1.15	829	914	0.91	
<i>yqhM</i>	2,543,200	2,544,036	-	448	362	1.24	754	794	0.95	
<i>yqhL</i>	2,544,227	2,544,607	+	404	343	1.18	508	630	0.81	
<i>gcvPB</i>	2,544,642	2,546,108	-	633	795	0.80	637	717	0.89	
<i>gcvPA</i>	2,546,101	2,547,447	-	786	988	0.80	839	928	0.90	
<i>gcvT</i>	2,547,477	2,548,565	-	606	738	0.82	747	889	0.84	
<i>yqhH</i>	2,549,007	2,550,680	+	48	54	0.90	42	51	0.84	
<i>yqhG</i>	2,550,701	2,551,495	+	195	157	1.24	178	151	1.18	
<i>sinI</i>	2,551,678	2,551,851	+	351	310	1.13	376	567	0.66	Spo0A regulon
<i>sinR</i>	2,551,885	2,552,220	+	244	283	0.86	366	428	0.85	
<i>tasA</i>	2,552,313	2,553,098	-	2398	427	5.61	2500	719	3.48	AbrB regulon
<i>sipW</i>	2,553,162	2,553,734	-	612	134	4.56	483	148	3.26	AbrB regulon
<i>yqxM</i>	2,553,718	2,554,479	-	197	58	3.40	159	66	2.41	AbrB regulon
<i>yqzG</i>	2,554,751	2,555,077	+	40	42	0.94	53	46	1.17	AbrB regulon
<i>yqzE</i>	2,555,060	2,555,299	-	88	126	0.70	250	399	0.63	
<i>comGG</i>	2,555,370	2,555,744	-	251	354	0.71	708	1063	0.67	
<i>comGF</i>	2,555,745	2,556,128	-	413	637	0.65	878	1296	0.68	
<i>comGE</i>	2,556,154	2,556,501	-	327	476	0.69	696	989	0.70	
<i>comGD</i>	2,556,485	2,556,916	-	331	482	0.69	665	915	0.73	
<i>comGC</i>	2,556,906	2,557,202	-	547	747	0.73	1064	1433	0.74	
<i>comGB</i>	2,557,216	2,558,187	-	581	718	0.81	797	1067	0.75	
<i>comGA</i>	2,558,240	2,559,310	-	799	1009	0.79	1318	1683	0.78	
<i>yqxL</i>	2,559,722	2,560,675	-	1557	1231	1.26	716	246	2.91	
<i>yqhB</i>	2,560,818	2,562,146	+	895	565	1.58	317	143	2.21	
<i>yqhA</i>	2,562,199	2,563,035	-	481	485	0.99	466	392	1.19	
<i>yqzZ</i>	2,563,259	2,563,639	-	6758	6656	1.02	4371	3814	1.15	
<i>yqzY</i>	2,563,871	2,564,116	+	1899	2489	0.76	1367	1843	0.74	
<i>yqzX</i>	2,564,156	2,564,791	-	907	990	0.92	1251	1243	1.01	
<i>yqzW</i>	2,564,949	2,565,122	+	959	1397	0.69	1456	1761	0.83	
<i>yqzV</i>	2,565,183	2,565,467	-	603	505	1.19	937	864	1.08	
<i>yqzU</i>	2,565,470	2,566,531	-	385	325	1.19	674	658	1.02	
<i>yqzT</i>	2,566,593	2,567,723	-	157	140	1.12	307	327	0.94	
<i>yqzS</i>	2,567,806	2,569,722	-	586	589	1.00	959	1149	0.83	
<i>glcK</i>	2,569,838	2,570,803	-	581	603	0.96	756	761	0.99	
<i>yqzO</i>	2,570,814	2,571,029	-	221	227	0.97	334	448	0.75	
<i>yqzP</i>	2,571,139	2,572,662	-	205	219	0.94	247	334	0.74	
<i>yqzQ</i>	2,572,752	2,572,925	-	368	376	0.98	381	500	0.76	
<i>yqzN</i>	2,572,992	2,573,555	-	262	289	0.91	300	353	0.85	
<i>rpmGA</i>	2,573,640	2,573,789	-	875	1130	0.77	1555	1402	1.11	
<i>yqzM</i>	2,573,873	2,574,952	-	116	105	1.11	120	128	0.94	
<i>yqzL</i>	2,574,949	2,575,419	-	87	93	0.94	91	94	0.97	

<i>yqzD</i>	2,575,599	2,575,952	+	1783	1470	1.21	1933	1805	1.07	Spo0A regulon
<i>yqzC</i>	2,575,949	2,576,413	+	895	766	1.17	1165	1067	1.09	
<i>pstBB</i>	2,576,442	2,577,224	-	63	58	1.07	55	60	0.91	
<i>pstBA</i>	2,577,235	2,578,044	-	53	53	1.00	49	52	0.95	
<i>pstA</i>	2,578,065	2,578,949	-	54	53	1.02	47	51	0.91	
<i>pstC</i>	2,578,949	2,579,878	-	55	56	0.98	48	51	0.92	
<i>pstS</i>	2,579,947	2,580,849	-	43	49	0.88	38	40	0.95	
<i>pbpA</i>	2,581,003	2,583,153	-	1587	1315	1.21	1612	1544	1.04	
<i>yqgE</i>	2,583,267	2,584,559	-	74	74	0.99	55	62	0.88	
<i>sodA</i>	2,584,666	2,585,274	-	7473	7779	0.96	6025	5393	1.12	
<i>yqgC</i>	2,585,453	2,585,935	-	1619	1108	1.46	774	717	1.08	
<i>yqgB</i>	2,586,045	2,586,803	+	407	344	1.18	443	387	1.14	
<i>yqgA</i>	2,587,229	2,587,657	-	2605	2875	0.91	3280	3614	0.91	
<i>yqfZ</i>	2,587,934	2,588,233	+	46	47	0.98	46	58	0.80	
<i>yqfY</i>	2,588,356	2,589,489	+	702	671	1.05	798	872	0.92	
<i>yqfX</i>	2,589,515	2,589,904	-	81	91	0.89	78	94	0.83	
<i>yqfW</i>	2,590,037	2,590,618	+	454	374	1.22	610	577	1.06	
<i>zur</i>	2,590,661	2,591,098	-	362	385	0.94	260	275	0.94	
<i>yqfU</i>	2,591,236	2,592,117	-	605	559	1.08	589	701	0.84	
<i>yqfT</i>	2,592,233	2,592,487	+	38	38	1.01	36	31	1.14	
<i>yqfS</i>	2,592,514	2,593,407	-	1044	1283	0.81	925	1230	0.75	
<i>yqfR</i>	2,593,417	2,594,733	-	1148	1366	0.84	926	1235	0.75	
<i>yqfQ</i>	2,594,902	2,595,645	+	95	102	0.93	75	89	0.84	
<i>yqfP</i>	2,595,768	2,596,712	+	550	438	1.26	517	572	0.90	
<i>yqfO</i>	2,596,735	2,597,856	-	641	575	1.11	904	873	1.04	
<i>yqfN</i>	2,597,849	2,598,499	-	450	423	1.06	693	672	1.03	
<i>cccA</i>	2,598,756	2,599,118	-	909	963	0.94	792	877	0.90	AbrB regulon
<i>sigA</i>	2,599,447	2,600,562	-	2316	2484	0.93	2541	2689	0.95	SigD regulon
<i>dnaG</i>	2,600,761	2,602,572	-	1192	1257	0.95	1405	1692	0.83	Spo0A regulon
<i>antE</i>	2,602,212	2,602,508	+	78	76	1.03	78	102	0.76	AbrB regulon
<i>yqxD</i>	2,602,606	2,603,196	-	1032	1043	0.99	1133	1351	0.84	
<i>yqfL</i>	2,603,354	2,604,166	-	473	482	0.98	695	793	0.88	
<i>yqzB</i>	2,604,192	2,604,830	-	567	644	0.88	799	845	0.95	
<i>glyS</i>	2,604,963	2,607,002	-	759	858	0.88	1329	1336	0.99	
<i>glyQ</i>	2,606,995	2,607,882	-	566	558	1.01	1012	1084	0.93	
<i>recO</i>	2,608,179	2,608,946	-	1098	909	1.21	1355	1633	0.83	
<i>era</i>	2,609,274	2,610,179	-	1565	1383	1.13	1898	2016	0.94	Spo0A regulon
<i>cdd</i>	2,610,160	2,610,570	-	1188	1072	1.11	1474	1554	0.95	
<i>dgkA</i>	2,610,689	2,611,033	-	719	452	1.59	694	616	1.13	
<i>yqfG</i>	2,611,040	2,611,513	-	864	624	1.38	1034	844	1.22	
<i>yqfF</i>	2,611,514	2,613,649	-	885	642	1.38	883	789	1.12	
<i>phoH</i>	2,613,728	2,614,687	-	1943	1467	1.32	1650	1495	1.10	
<i>yqfD</i>	2,614,684	2,615,880	-	126	110	1.14	153	153	1.00	
<i>yqfC</i>	2,615,899	2,616,180	-	63	65	0.97	140	144	0.98	
<i>yqfB</i>	2,616,237	2,616,656	-	2263	2411	0.94	2980	3330	0.89	
<i>yqfA</i>	2,616,681	2,617,676	-	2300	2358	0.98	3188	3405	0.94	
<i>yqeZ</i>	2,617,698	2,619,011	-	1944	1774	1.10	2343	2648	0.88	
<i>yqeY</i>	2,619,142	2,619,588	-	3264	3710	0.88	3226	3401	0.95	
<i>rpsU</i>	2,619,603	2,619,776	-	4876	5904	0.83	5338	5562	0.96	
<i>yqeW</i>	2,619,940	2,620,872	+	51	56	0.91	48	51	0.94	
<i>yqeV</i>	2,620,909	2,622,264	-	643	565	1.14	1301	1354	0.96	
<i>yqeU</i>	2,622,264	2,623,034	-	384	287	1.34	715	813	0.88	
<i>yqeT</i>	2,623,057	2,623,992	-	507	409	1.24	947	1075	0.88	
<i>dnaJ</i>	2,624,017	2,625,135	-	1042	1005	1.04	1720	1740	0.99	
<i>dnaK</i>	2,625,335	2,627,170	-	3272	3042	1.08	3852	3540	1.09	
<i>grpE</i>	2,627,194	2,627,757	-	2821	2361	1.19	3169	3023	1.05	
<i>hrcA</i>	2,627,829	2,628,860	-	899	784	1.15	883	733	1.21	
<i>hemN</i>	2,628,980	2,630,080	-	237	212	1.12	354	339	1.04	
<i>lepA</i>	2,630,133	2,631,971	-	693	592	1.17	900	996	0.90	
<i>yqxA</i>	2,632,105	2,632,443	-	52	48	1.09	49	50	0.98	
<i>spoIIP</i>	2,632,460	2,633,665	-	93	85	1.09	80	100	0.80	
<i>gpr</i>	2,633,728	2,634,834	-	86	83	1.03	78	87	0.89	
<i>rpsT</i>	2,635,038	2,635,304	+	584	781	0.75	787	734	1.07	
<i>yqeN</i>	2,635,319	2,636,362	-	253	250	1.01	336	429	0.78	
<i>comEC</i>	2,636,766	2,639,096	-	105	125	0.84	147	242	0.61	
<i>comEB</i>	2,639,100	2,639,669	-	340	361	0.94	465	650	0.72	
<i>comEA</i>	2,639,736	2,640,353	-	286	307	0.93	405	669	0.60	
<i>comER</i>	2,640,437	2,641,258	+	79	76	1.04	56	61	0.92	
<i>yqeM</i>	2,641,324	2,642,067	-	687	513	1.34	1206	1050	1.15	
<i>yqeL</i>	2,642,064	2,642,420	-	1091	830	1.31	1944	1781	1.09	
<i>yqeK</i>	2,642,438	2,642,998	-	639	461	1.39	1250	1102	1.13	
<i>yqeJ</i>	2,642,988	2,643,557	-	927	639	1.45	1444	1319	1.10	
<i>yqeI</i>	2,643,569	2,643,859	-	962	726	1.33	1935	1726	1.12	
<i>aroD</i>	2,643,853	2,644,695	-	806	604	1.33	1554	1432	1.09	
<i>yqeH</i>	2,644,713	2,645,813	-	485	345	1.41	986	929	1.06	
<i>yqeG</i>	2,645,817	2,646,335	-	343	255	1.35	536	621	0.86	
<i>sda</i>	2,646,679	2,646,837	+	180	123	1.46	246	464	0.53	
<i>yqeF</i>	2,647,143	2,647,874	-	909	417	2.18	372	184	2.02	
<i>cwlH</i>	2,648,126	2,648,878	-	151	130	1.16	154	124	1.24	
<i>yqeD</i>	2,649,065	2,649,691	+	97	62	1.57	75	71	1.07	
<i>yqeC</i>	2,649,710	2,650,603	-	97	93	1.04	81	83	0.98	
<i>yqeB</i>	2,650,855	2,651,580	+	404	289	1.40	616	453	1.36	
<i>nucB</i>	2,651,613	2,652,023	-	64	72	0.90	62	72	0.86	
<i>spoIVCB</i>	2,652,219	2,652,689	+	51	52	0.97	72	67	1.07	
<i>spoIVCA</i>	2,652,597	2,654,099	-	68	66	1.02	89	97	0.91	
<i>arsC</i>	2,654,548	2,654,967	-	180	193	0.93	235	243	0.97	
<i>arsB</i>	2,654,979	2,656,019	-	131	138	0.95	134	148	0.91	
<i>yqcK</i>	2,656,042	2,656,482	-	50	59	0.85	59	69	0.85	
<i>arsR</i>	2,656,543	2,656,860	-	68	74	0.93	96	113	0.85	
<i>yqcI</i>	2,657,232	2,657,996	-	30	35	0.87	29	35	0.83	
<i>rapE</i>	2,658,440	2,659,567	+	138	152	0.91	183	167	1.10	

<i>yqzI</i>	2,659,801	2,659,959	+	87	102	0.85	98	98	1.00	
<i>yqcG</i>	2,660,329	2,661,924	+	625	512	1.22	726	704	1.03	Spo0A and AbrB regulon
<i>yqcF</i>	2,661,939	2,662,517	+	444	328	1.36	517	461	1.12	
<i>yqxJ</i>	2,662,778	2,663,140	-	602	533	1.13	759	627	1.21	AbrB regulon
<i>yqxI</i>	2,663,156	2,663,635	-	1572	1362	1.15	1633	1391	1.17	Spo0A and AbrB regulon
<i>cwIA</i>	2,663,800	2,664,618	-	56	56	0.99	62	60	1.04	
<i>yqxH</i>	2,664,663	2,665,085	-	30	33	0.91	29	28	1.04	
<i>yqxG</i>	2,665,130	2,666,023	-	26	30	0.88	27	29	0.95	
<i>yqcE</i>	2,666,111	2,666,275	-	28	29	0.99	35	29	1.21	
<i>yqcD</i>	2,666,272	2,666,607	-	26	32	0.81	29	26	1.15	
<i>yqcC</i>	2,666,617	2,667,717	-	57	50	1.14	75	60	1.25	
<i>yqcB</i>	2,667,720	2,667,992	-	30	38	0.78	29	31	0.94	
<i>yqaA</i>	2,667,989	2,668,567	-	53	50	1.06	35	41	0.86	
<i>yqbT</i>	2,668,551	2,669,597	-	63	73	0.86	56	69	0.81	
<i>yqbS</i>	2,669,590	2,670,015	-	39	48	0.82	34	37	0.93	
<i>yqbR</i>	2,670,028	2,670,291	-	23	29	0.78	28	31	0.92	
<i>yqbQ</i>	2,670,288	2,671,268	-	61	54	1.13	54	52	1.04	
<i>yqbP</i>	2,671,281	2,671,940	-	64	48	1.34	78	68	1.16	
<i>yqbO</i>	2,671,933	2,676,690	-	76	70	1.07	70	72	0.97	
<i>yqbN</i>	2,676,872	2,677,321	-	30	33	0.89	34	33	1.04	
<i>yqdB</i>	2,677,467	2,677,646	+	33	39	0.84	121	163	0.74	
<i>yqbM</i>	2,678,369	2,678,812	-	141	89	1.59	74	56	1.31	
<i>yqbL</i>	2,678,815	2,679,219	-	145	80	1.80	66	43	1.52	
<i>yqbK</i>	2,679,297	2,680,214	-	60	63	0.95	64	69	0.93	
<i>yqbJ</i>	2,680,403	2,680,840	-	36	42	0.87	40	45	0.89	
<i>yqbI</i>	2,680,853	2,681,356	-	55	60	0.90	52	51	1.01	
<i>yqbH</i>	2,681,353	2,681,715	-	31	35	0.89	37	37	1.01	
<i>yqbG</i>	2,681,712	2,682,107	-	60	75	0.80	69	74	0.93	
<i>yqbF</i>	2,682,111	2,682,422	-	33	39	0.84	42	38	1.10	
<i>yqbE</i>	2,682,433	2,683,368	-	41	41	0.98	50	46	1.10	
<i>yqbD</i>	2,683,387	2,684,355	-	74	78	0.95	72	82	0.87	
<i>yqbC</i>	2,684,388	2,685,041	-	148	166	0.89	176	185	0.95	
<i>yqbB</i>	2,685,082	2,685,999	-	63	55	1.14	64	61	1.05	
<i>yqaA</i>	2,685,996	2,687,528	-	54	52	1.04	53	53	1.02	
<i>yqaT</i>	2,687,532	2,688,827	-	49	56	0.87	46	58	0.80	
<i>yqaS</i>	2,688,820	2,689,539	-	66	94	0.71	73	85	0.86	
<i>yqaR</i>	2,689,607	2,690,071	-	165	207	0.80	262	321	0.81	
<i>yqaQ</i>	2,690,215	2,690,670	-	34	47	0.73	38	42	0.89	
<i>yqaP</i>	2,690,868	2,691,797	+	2016	1885	1.07	2069	2094	0.99	AbrB regulon
<i>yqaO</i>	2,691,871	2,692,077	-	26	29	0.88	25	22	1.16	
<i>yqaN</i>	2,692,159	2,692,587	-	47	51	0.92	53	51	1.04	
<i>yqaM</i>	2,692,823	2,693,764	-	34	37	0.92	32	35	0.94	
<i>yqaL</i>	2,693,646	2,694,347	-	62	66	0.95	47	52	0.89	
<i>yqaK</i>	2,694,399	2,695,253	-	47	46	1.02	37	43	0.87	
<i>yqaJ</i>	2,695,256	2,696,215	-	24	28	0.85	25	28	0.92	
<i>yqaI</i>	2,696,321	2,696,515	-	25	35	0.71	26	22	1.19	
<i>yqaH</i>	2,696,645	2,696,902	-	27	30	0.88	22	27	0.81	
<i>yqaG</i>	2,696,899	2,697,468	-	31	38	0.82	30	35	0.87	
<i>yqaA</i>	2,697,542	2,697,682	-	41	42	0.97	52	51	1.02	
<i>yqaF</i>	2,697,712	2,697,942	-	19	26	0.76	22	23	0.96	
<i>yqaE</i>	2,698,119	2,698,469	+	258	250	1.03	234	247	0.95	
<i>yqaD</i>	2,698,736	2,698,903	-	23	29	0.78	35	34	1.04	
<i>yqaC</i>	2,699,259	2,699,795	-	90	84	1.06	81	70	1.15	
<i>yqaB</i>	2,700,064	2,700,582	+	30	36	0.82	35	38	0.92	
<i>spoIIIc</i>	2,700,564	2,700,980	+	83	81	1.03	61	82	0.74	
<i>yrkS</i>	2,701,205	2,701,369	-	41	44	0.93	36	49	0.74	
<i>yrkR</i>	2,701,914	2,702,333	-	132	73	1.80	96	70	1.37	
<i>yrkQ</i>	2,702,376	2,703,674	-	189	128	1.47	156	131	1.19	
<i>yrkP</i>	2,703,661	2,704,356	-	92	100	0.93	99	93	1.06	
<i>yrkO</i>	2,704,624	2,705,841	+	90	75	1.20	82	80	1.02	
<i>yrkN</i>	2,706,353	2,706,910	+	96	84	1.15	96	93	1.03	
<i>yrkL</i>	2,707,401	2,707,925	-	607	507	1.20	530	513	1.03	
<i>yrkK</i>	2,708,169	2,708,645	-	90	93	0.97	82	91	0.90	
<i>yrkJ</i>	2,709,228	2,710,013	-	35	37	0.96	37	33	1.10	
<i>yrkI</i>	2,710,074	2,710,301	-	30	30	1.00	43	40	1.07	
<i>yrkH</i>	2,710,335	2,711,222	-	82	79	1.04	80	93	0.86	
<i>yrkF</i>	2,711,803	2,712,360	-	55	57	0.96	55	55	1.00	
<i>yrkE</i>	2,712,546	2,713,028	-	39	45	0.87	35	36	0.98	
<i>yrkD</i>	2,713,175	2,713,366	-	257	303	0.85	362	477	0.76	
<i>yrkC</i>	2,714,159	2,714,719	-	155	129	1.20	202	226	0.89	
<i>yrkB</i>	2,714,945	2,715,091	-	75	57	1.31	102	80	1.27	
<i>bltR</i>	2,715,261	2,716,082	-	50	54	0.93	70	79	0.89	
<i>bltI</i>	2,716,199	2,717,401	+	42	49	0.87	42	48	0.88	
<i>bltD</i>	2,717,570	2,718,028	+	27	34	0.81	40	42	0.95	
<i>yrkA</i>	2,718,185	2,719,489	-	413	514	0.80	251	328	0.76	
<i>yrdR</i>	2,719,913	2,720,878	-	34	37	0.92	31	31	0.98	
<i>yrdQ</i>	2,721,004	2,721,870	+	168	159	1.06	197	182	1.08	
<i>trkA</i>	2,721,993	2,723,030	-	326	467	0.70	123	173	0.71	
<i>czcD</i>	2,723,118	2,724,053	-	520	861	0.60	242	303	0.80	
<i>yrdN</i>	2,724,340	2,724,729	-	41	42	0.98	46	41	1.11	
<i>glrR</i>	2,725,063	2,725,953	+	60	62	0.98	85	93	0.91	
<i>yrdK</i>	2,726,111	2,726,428	-	91	90	1.01	142	143	0.99	
<i>brnQ</i>	2,726,386	2,727,708	-	107	105	1.02	138	148	0.93	
<i>azlD</i>	2,727,873	2,728,205	-	151	144	1.05	226	211	1.07	
<i>azlC</i>	2,728,202	2,728,966	-	124	118	1.05	160	170	0.94	
<i>azlB</i>	2,728,979	2,729,452	-	110	108	1.01	163	148	1.10	
<i>yrdF</i>	2,729,786	2,730,061	-	33	34	0.96	46	38	1.20	
<i>cypA</i>	2,730,333	2,731,565	-	68	56	1.22	94	81	1.16	
<i>yrdC</i>	2,732,206	2,732,769	-	189	189	1.00	355	451	0.79	
<i>yrdB</i>	2,732,998	2,733,369	-	45	56	0.81	82	99	0.83	
<i>yrdA</i>	2,734,179	2,734,682	-	572	385	1.48	366	398	0.92	

<i>aadK</i>	2,734,908	2,735,762	-	288	254	1.13	266	309	0.86	
<i>yrpB</i>	2,736,141	2,737,184	+	474	428	1.11	366	322	1.14	
<i>yrpC</i>	2,737,534	2,738,331	+	62	69	0.89	67	68	0.98	
<i>yrpD</i>	2,738,712	2,739,419	+	2048	2392	0.86	2447	2605	0.94	AbrB regulon
<i>yrpE</i>	2,740,583	2,741,338	-	32	33	0.97	48	46	1.04	
<i>sigZ</i>	2,741,470	2,742,000	-	66	61	1.08	75	68	1.09	
<i>yrpG</i>	2,742,165	2,743,115	+	100	95	1.05	92	93	0.99	
<i>yraO</i>	2,743,389	2,744,705	-	141	176	0.80	167	206	0.81	
<i>yraN</i>	2,744,820	2,745,689	-	206	256	0.80	285	329	0.87	
<i>yraM</i>	2,745,834	2,746,937	+	56	65	0.86	64	68	0.94	
<i>csn</i>	2,747,210	2,748,043	-	1434	1088	1.32	1082	878	1.23	AbrB regulon
<i>yraL</i>	2,748,486	2,748,749	+	602	445	1.35	609	627	0.97	
<i>yraK</i>	2,748,886	2,749,575	+	122	116	1.06	121	122	0.99	
<i>yraJ</i>	2,750,108	2,750,470	-	443	299	1.48	316	236	1.34	
<i>yraI</i>	2,750,517	2,750,951	-	1004	719	1.40	884	626	1.41	
<i>yraH</i>	2,751,392	2,751,778	-	263	194	1.35	194	181	1.07	
<i>yraG</i>	2,752,027	2,752,272	+	58	43	1.35	39	29	1.34	
<i>yraF</i>	2,752,290	2,752,658	+	73	60	1.20	53	42	1.26	
<i>adhB</i>	2,752,677	2,753,813	+	85	71	1.20	68	52	1.30	
<i>yraE</i>	2,753,832	2,754,029	+	114	78	1.47	77	55	1.40	
<i>yraD</i>	2,754,045	2,754,344	+	59	49	1.21	53	38	1.42	
<i>yraB</i>	2,754,607	2,755,029	-	98	88	1.11	85	86	0.99	
<i>adhA</i>	2,755,537	2,756,586	+	125	122	1.03	132	117	1.13	
<i>yraA</i>	2,756,717	2,757,226	+	1452	1728	0.84	1743	1918	0.91	
<i>sacC</i>	2,757,268	2,759,301	-	205	131	1.56	131	113	1.15	
<i>levG</i>	2,759,458	2,760,285	-	475	247	1.92	319	224	1.43	
<i>levF</i>	2,760,306	2,761,115	-	474	246	1.93	328	214	1.54	
<i>levE</i>	2,761,132	2,761,620	-	480	244	1.97	362	241	1.50	
<i>levD</i>	2,761,620	2,762,060	-	434	229	1.89	300	193	1.56	
<i>levR</i>	2,762,250	2,765,066	-	177	113	1.56	194	131	1.48	
<i>aapA</i>	2,765,783	2,767,162	+	74	71	1.04	79	84	0.94	
<i>yrhP</i>	2,767,269	2,767,901	-	88	213	0.41	62	157	0.39	
<i>yrhO</i>	2,768,054	2,768,881	+	149	130	1.14	176	192	0.92	
<i>sigV</i>	2,769,077	2,769,577	+	34	39	0.86	37	42	0.89	
<i>yrhM</i>	2,769,577	2,770,434	+	50	52	0.96	53	57	0.93	
<i>yrhL</i>	2,770,545	2,772,449	+	82	76	1.08	97	93	1.04	
<i>yrhK</i>	2,772,583	2,772,873	+	274	111	2.47	203	80	2.53	
<i>yrhJ</i>	2,773,117	2,776,281	-	211	218	0.97	402	330	1.22	
<i>yrhI</i>	2,776,297	2,776,881	-	84	75	1.12	141	114	1.23	
<i>yrhH</i>	2,777,104	2,777,646	-	69	76	0.90	95	106	0.90	
<i>yrzI</i>	2,778,150	2,778,299	-	1688	2162	0.78	732	847	0.86	AbrB regulon
<i>yrhG</i>	2,778,689	2,779,489	-	175	152	1.15	226	187	1.21	
<i>yrhF</i>	2,779,752	2,780,120	-	166	151	1.10	284	259	1.09	
<i>yrhE</i>	2,780,436	2,783,378	+	142	146	0.97	120	134	0.89	
<i>yrhD</i>	2,783,397	2,783,879	+	91	99	0.92	65	73	0.90	
<i>yrhC</i>	2,783,915	2,784,145	-	59	64	0.92	48	45	1.07	
<i>yrhB</i>	2,784,228	2,785,367	-	255	256	0.99	306	380	0.81	
<i>yrhA</i>	2,785,369	2,786,292	-	287	262	1.10	338	425	0.80	
<i>mtn</i>	2,786,357	2,787,052	-	870	815	1.07	1140	1216	0.94	
<i>yrzT</i>	2,787,073	2,787,714	-	411	356	1.15	423	552	0.77	
<i>yrzA</i>	2,787,907	2,788,110	+	263	247	1.07	372	381	0.98	
<i>yrzS</i>	2,788,147	2,788,848	-	1082	1014	1.07	1130	1080	1.05	
<i>yrzR</i>	2,788,913	2,790,667	-	114	111	1.03	134	150	0.90	
<i>greA</i>	2,790,721	2,791,194	-	1018	1035	0.98	1914	2007	0.95	
<i>udk</i>	2,791,445	2,792,080	-	367	326	1.13	763	783	0.97	
<i>yrzO</i>	2,792,087	2,793,355	-	481	405	1.19	985	948	1.04	
<i>yrzN</i>	2,793,374	2,794,303	-	488	394	1.24	857	914	0.94	
<i>yrzM</i>	2,794,309	2,794,962	-	291	259	1.13	574	627	0.92	
<i>yrzL</i>	2,795,114	2,796,196	-	692	544	1.27	976	805	1.21	Spo0A regulon
<i>yrzB</i>	2,796,327	2,796,608	-	3241	3391	0.96	2934	2864	1.02	
<i>yrzK</i>	2,796,626	2,797,042	-	1986	1805	1.10	2102	1922	1.09	
<i>yrzL</i>	2,797,050	2,797,316	-	1794	1576	1.14	1864	1715	1.09	
<i>alaS</i>	2,797,401	2,800,037	-	1214	996	1.22	1691	1491	1.13	
<i>yrzI</i>	2,800,368	2,801,429	-	67	63	1.07	58	66	0.89	
<i>glnQ</i>	2,801,585	2,802,313	+	118	118	1.00	107	121	0.89	
<i>glnH</i>	2,802,335	2,803,156	+	77	55	1.39	38	39	0.97	
<i>glnM</i>	2,803,217	2,803,867	+	74	66	1.13	45	54	0.84	
<i>glnP</i>	2,803,884	2,804,540	+	43	36	1.21	31	31	1.02	
<i>yrzD</i>	2,804,931	2,805,455	-	43	50	0.86	56	54	1.03	
<i>yrzC</i>	2,805,513	2,807,909	-	223	202	1.11	405	433	0.94	
<i>yrzB</i>	2,807,934	2,808,554	-	260	236	1.10	537	547	0.98	
<i>trmU</i>	2,808,640	2,809,764	-	729	706	1.03	930	1179	0.79	
<i>yrzO</i>	2,809,786	2,810,925	-	770	727	1.06	930	1243	0.75	
<i>yrzC</i>	2,811,027	2,811,362	-	362	354	1.02	362	602	0.60	
<i>yrzN</i>	2,811,562	2,812,827	+	198	178	1.11	205	196	1.05	
<i>yrzM</i>	2,812,869	2,813,633	-	296	369	0.80	273	375	0.73	
<i>aspS</i>	2,813,969	2,815,747	-	1295	1570	0.82	1759	1964	0.90	
<i>hisK</i>	2,815,761	2,817,035	-	770	857	0.90	1071	1397	0.77	
<i>yrzK</i>	2,817,417	2,817,587	-	24	28	0.85	41	44	0.94	
<i>yrzJ</i>	2,817,720	2,819,276	+	1013	972	1.04	1384	1318	1.05	
<i>yrzI</i>	2,819,303	2,819,701	-	1025	876	1.17	1540	1399	1.10	
<i>relA</i>	2,819,755	2,821,959	-	1403	1242	1.13	1524	1536	0.99	
<i>apt</i>	2,822,127	2,822,639	-	881	710	1.24	1319	1405	0.94	
<i>yrzE</i>	2,822,645	2,825,005	-	688	619	1.11	1040	1120	0.93	
<i>yrzD</i>	2,825,072	2,825,395	-	1130	1212	0.93	897	659	1.36	
<i>yrzC</i>	2,825,471	2,825,968	-	338	359	0.94	462	633	0.73	
<i>secDF</i>	2,826,126	2,828,339	-	1514	1551	0.98	1540	1769	0.87	
<i>yrzD</i>	2,828,378	2,828,674	-	1375	1421	0.97	1612	2009	0.80	
<i>spoVB</i>	2,828,790	2,830,346	+	59	65	0.91	53	63	0.83	
<i>yrzG</i>	2,830,350	2,831,006	-	55	64	0.87	47	53	0.88	
<i>yrzE</i>	2,831,141	2,831,593	+	70	58	1.21	67	55	1.22	

<i>yrbF</i>	2,831,650	2,831,919	-	2593	2447	1.06	2056	2084	0.99
<i>tgt</i>	2,831,953	2,833,098	-	760	590	1.29	1158	1045	1.11
<i>queA</i>	2,833,125	2,834,153	-	905	677	1.34	1228	1157	1.06
<i>ruvB</i>	2,834,376	2,835,380	-	568	471	1.21	714	764	0.93
<i>ruvA</i>	2,835,391	2,835,996	-	542	401	1.35	475	627	0.76
<i>bofC</i>	2,836,135	2,836,647	-	1055	701	1.51	428	265	1.62
<i>csbX</i>	2,836,695	2,838,002	-	1942	1478	1.31	732	450	1.63
<i>yrbE</i>	2,838,073	2,839,098	-	229	235	0.97	234	286	0.82
<i>yrzF</i>	2,839,336	2,839,728	+	515	505	1.02	388	406	0.95
<i>yrzG</i>	2,839,761	2,839,982	+	505	522	0.97	283	321	0.88
<i>yrbD</i>	2,840,836	2,842,290	+	132	137	0.97	95	106	0.89
<i>yrbC</i>	2,842,331	2,843,053	-	210	204	1.03	264	239	1.10
<i>coxA</i>	2,843,156	2,843,674	-	362	354	1.02	495	490	1.01
<i>safA</i>	2,843,900	2,845,063	-	3235	3540	0.91	2888	2995	0.96
<i>nadA</i>	2,845,180	2,846,286	-	4229	4270	0.99	3635	3683	0.99
<i>nadC</i>	2,846,273	2,847,142	-	2947	2577	1.14	2469	2592	0.95
<i>nadB</i>	2,847,096	2,848,691	-	2522	1815	1.39	2212	2542	0.87
<i>nifS</i>	2,848,794	2,849,981	+	1203	793	1.52	1103	1303	0.85
<i>yrxA</i>	2,849,941	2,850,477	+	1560	1172	1.33	1726	1970	0.88
<i>pheA</i>	2,850,509	2,851,366	-	353	376	0.94	655	676	0.97
<i>pheB</i>	2,851,383	2,851,826	-	875	865	1.01	1195	1211	0.99
<i>obg</i>	2,851,887	2,853,173	-	857	828	1.03	1222	1276	0.96
<i>spo0B</i>	2,853,207	2,853,785	-	563	562	1.00	810	921	0.88
<i>rpmA</i>	2,854,106	2,854,390	-	2926	3453	0.85	2158	2444	0.88
<i>ysxB</i>	2,854,403	2,854,741	-	5991	7029	0.85	5688	5514	1.03
<i>rplU</i>	2,854,744	2,855,052	-	6299	7465	0.84	5887	5917	0.99
<i>spoIVFB</i>	2,855,199	2,856,065	-	77	65	1.18	95	76	1.25
<i>spoIVFA</i>	2,856,058	2,856,852	-	88	67	1.32	120	83	1.44
<i>minD</i>	2,857,003	2,857,809	-	1551	1335	1.16	2108	2063	1.02
<i>minC</i>	2,857,811	2,858,491	-	1729	1468	1.18	2272	2359	0.96
<i>mreD</i>	2,858,544	2,859,062	-	1159	909	1.28	1670	1752	0.95
<i>mreC</i>	2,859,059	2,859,931	-	1375	1157	1.19	2607	2588	1.01
<i>mreB</i>	2,859,962	2,860,975	-	1308	1173	1.12	2005	2110	0.95
<i>radC</i>	2,861,066	2,861,761	-	501	492	1.02	850	950	0.89
<i>maf</i>	2,861,798	2,862,367	-	734	733	1.00	1272	1289	0.99
<i>spolIB</i>	2,862,520	2,863,518	-	119	110	1.08	131	166	0.79
<i>comC</i>	2,863,652	2,864,398	-	150	145	1.03	204	292	0.70
<i>folC</i>	2,864,538	2,865,830	-	524	595	0.88	985	994	0.99
<i>valS</i>	2,865,890	2,868,532	-	673	639	1.05	1406	1505	0.93
<i>ysxE</i>	2,869,029	2,870,054	-	73	76	0.96	63	78	0.80
<i>spoVID</i>	2,870,087	2,871,814	-	96	99	0.97	79	86	0.93
<i>hemL</i>	2,871,945	2,873,237	-	1616	1241	1.30	1440	1139	1.26
<i>hemB</i>	2,873,267	2,874,241	-	1658	1188	1.40	1518	1244	1.22
<i>hemD</i>	2,874,238	2,875,026	-	1104	680	1.62	903	713	1.27
<i>hemC</i>	2,875,016	2,875,960	-	1122	685	1.64	766	606	1.26
<i>hemX</i>	2,875,993	2,876,823	-	587	375	1.56	415	360	1.15
<i>hemA</i>	2,876,831	2,878,198	-	1715	1349	1.27	1121	1074	1.04
<i>ysxD</i>	2,878,362	2,878,925	+	77	82	0.94	105	107	0.98
<i>ysxC</i>	2,878,947	2,879,534	-	1093	854	1.28	1395	1138	1.23
<i>lonA</i>	2,879,531	2,881,855	-	1589	1267	1.25	1518	1234	1.23
<i>lonB</i>	2,882,036	2,883,694	-	130	104	1.25	85	95	0.90
<i>clpX</i>	2,883,846	2,885,108	-	2186	2013	1.09	2186	2322	0.94
<i>tig</i>	2,885,381	2,886,655	-	2233	1991	1.12	3464	3785	0.92
<i>ysoA</i>	2,886,883	2,887,815	-	558	635	0.88	745	986	0.76
<i>leuD</i>	2,888,005	2,888,604	-	1007	1505	0.67	1630	2053	0.79
<i>leuC</i>	2,888,617	2,890,035	-	2910	3903	0.75	3602	4323	0.83
<i>leuB</i>	2,890,085	2,891,182	-	2715	3638	0.75	3599	4309	0.84
<i>leuA</i>	2,891,203	2,892,759	-	2749	3632	0.76	3350	4040	0.83
<i>ilvC</i>	2,892,746	2,893,774	-	4120	5246	0.79	4523	5069	0.89
<i>ilvH</i>	2,893,791	2,894,315	-	3083	3915	0.79	3737	4205	0.89
<i>ilvB</i>	2,894,312	2,896,036	-	2257	2678	0.84	2840	3468	0.82
<i>ysnD</i>	2,896,852	2,897,187	+	63	65	0.98	49	53	0.92
<i>ysnE</i>	2,897,356	2,897,811	+	103	107	0.96	128	125	1.03
<i>ysnF</i>	2,897,995	2,898,855	+	2698	2693	1.00	1737	930	1.87
<i>ysnB</i>	2,899,086	2,899,601	-	2158	1489	1.45	1543	1177	1.31
<i>ysnA</i>	2,899,611	2,900,207	-	2486	1700	1.46	1819	1475	1.23
<i>rph</i>	2,900,220	2,900,957	-	2121	1428	1.49	1442	1192	1.21
<i>gerM</i>	2,901,068	2,902,168	-	144	133	1.09	87	99	0.88
<i>racE</i>	2,902,284	2,903,102	-	517	493	1.05	639	719	0.89
<i>ysmB</i>	2,903,110	2,903,550	-	756	721	1.05	938	1142	0.82
<i>gerE</i>	2,903,794	2,904,018	-	151	156	0.97	223	279	0.80
<i>ysmA</i>	2,904,134	2,904,577	-	227	323	0.70	368	517	0.71
<i>sdhB</i>	2,904,640	2,905,401	-	2443	2862	0.85	2758	2934	0.94
<i>sdhA</i>	2,905,404	2,907,164	-	2357	2698	0.87	3085	3347	0.92
<i>sdhC</i>	2,907,198	2,907,806	-	1714	1727	0.99	2263	2563	0.88
<i>yslB</i>	2,908,099	2,908,545	+	961	863	1.11	1131	860	1.32
<i>lysC</i>	2,908,589	2,909,815	-	1327	1406	0.94	1437	1836	0.78
<i>uvrC</i>	2,910,160	2,911,956	-	461	325	1.42	333	343	0.97
<i>trxA</i>	2,912,092	2,912,406	-	4849	4160	1.17	3549	3589	0.99
<i>xsa</i>	2,912,729	2,914,216	-	94	103	0.91	86	106	0.81
<i>etfA</i>	2,914,433	2,915,410	-	261	376	0.69	315	461	0.68
<i>etfB</i>	2,915,446	2,916,219	-	377	482	0.78	477	644	0.74
<i>ysiB</i>	2,916,234	2,917,010	-	264	328	0.81	317	422	0.75
<i>ysiA</i>	2,917,025	2,917,609	-	440	526	0.84	550	780	0.71
<i>lcfA</i>	2,917,714	2,919,396	-	591	567	1.04	578	602	0.96
<i>yshE</i>	2,919,585	2,919,989	-	616	601	1.02	800	891	0.90
<i>mutSB</i>	2,920,004	2,922,361	-	602	570	1.06	916	905	1.01
<i>yshC</i>	2,922,382	2,924,094	-	565	540	1.05	749	777	0.96
<i>yshB</i>	2,924,168	2,924,701	-	156	166	0.94	134	167	0.80
<i>yshA</i>	2,924,708	2,924,965	-	320	318	1.01	421	575	0.73
<i>rnhC</i>	2,925,099	2,926,040	+	281	247	1.13	306	343	0.89

<i>pheT</i>	2,926,076	2,928,490	-	901	983	0.92	1334	1337	1.00	
<i>pheS</i>	2,928,506	2,929,540	-	831	785	1.06	1413	1486	0.95	
<i>ysgA</i>	2,929,895	2,930,641	-	315	277	1.14	302	350	0.86	
<i>sspl</i>	2,930,760	2,930,975	+	37	46	0.81	36	36	0.98	
<i>ysfB</i>	2,931,044	2,932,150	+	131	115	1.14	152	161	0.95	
<i>ysfC</i>	2,932,253	2,933,665	+	351	245	1.43	359	374	0.96	
<i>ysfD</i>	2,933,662	2,934,996	+	289	215	1.35	238	245	0.97	
<i>ysfE</i>	2,935,035	2,935,277	-	384	414	0.93	399	430	0.93	
<i>cstA</i>	2,935,450	2,937,246	-	227	251	0.90	238	271	0.88	
<i>abfA</i>	2,937,398	2,938,900	-	80	82	0.98	70	85	0.82	
<i>araQ</i>	2,938,919	2,939,764	-	51	52	0.99	45	49	0.92	
<i>araP</i>	2,939,765	2,940,706	-	74	75	0.99	64	72	0.89	
<i>araN</i>	2,940,742	2,942,043	-	74	76	0.96	68	75	0.92	
<i>araM</i>	2,942,074	2,943,258	-	70	69	1.01	60	71	0.85	
<i>araL</i>	2,943,255	2,944,073	-	66	69	0.96	56	65	0.86	
<i>araD</i>	2,944,051	2,944,740	-	58	62	0.93	57	65	0.88	
<i>araB</i>	2,944,757	2,946,439	-	131	140	0.94	134	138	0.97	
<i>araA</i>	2,946,453	2,947,949	-	145	142	1.02	128	152	0.84	
<i>abnA</i>	2,948,157	2,949,098	-	42	43	0.98	34	38	0.90	
<i>ysdC</i>	2,949,295	2,950,380	-	1224	1096	1.12	1554	1466	1.06	
<i>ysdB</i>	2,950,564	2,950,956	+	1170	1440	0.81	956	961	0.99	
<i>ysdA</i>	2,950,972	2,951,241	-	55	69	0.80	129	134	0.96	
<i>rplT</i>	2,951,298	2,951,657	-	719	1010	0.71	1373	1597	0.86	
<i>rpmI</i>	2,951,689	2,951,889	-	4590	5266	0.87	4704	4813	0.98	
<i>infC</i>	2,951,902	2,952,423	-	4238	4789	0.89	4363	4414	0.99	
<i>yscA</i>	2,952,595	2,952,819	+	17	25	0.68	25	22	1.14	
<i>yscB</i>	2,952,869	2,953,501	+	2048	2291	0.89	1737	1691	1.03	AbrB and SigD regulon
<i>ysbB</i>	2,953,533	2,954,228	-	101	110	0.92	70	96	0.73	
<i>ysbA</i>	2,954,250	2,954,690	-	48	52	0.92	48	52	0.92	
<i>lytT</i>	2,954,824	2,955,549	-	224	174	1.29	337	330	1.02	
<i>lytS</i>	2,955,527	2,957,308	-	165	146	1.13	174	200	0.87	
<i>ysaA</i>	2,957,475	2,958,257	+	667	623	1.07	904	1114	0.81	
<i>thrS</i>	2,958,298	2,960,229	-	770	833	0.92	1297	1376	0.94	
<i>ytxC</i>	2,960,626	2,961,471	-	293	236	1.24	388	405	0.96	
<i>ytxB</i>	2,961,550	2,962,191	-	421	328	1.28	599	576	1.04	
<i>dnal</i>	2,962,225	2,963,160	-	344	285	1.21	460	498	0.92	
<i>dnaB</i>	2,963,188	2,964,606	-	206	197	1.04	266	332	0.80	
<i>ytcG</i>	2,964,721	2,965,179	-	138	151	0.91	227	242	0.94	
<i>speD</i>	2,965,453	2,965,839	-	1061	1449	0.73	1113	1235	0.90	
<i>gapB</i>	2,966,072	2,967,094	-	75	76	1.00	77	88	0.87	
<i>ytcD</i>	2,967,300	2,967,680	-	90	83	1.07	116	118	0.98	
<i>ytdB</i>	2,967,864	2,969,054	+	67	64	1.05	51	55	0.92	
<i>ytdE</i>	2,969,078	2,969,920	+	90	89	1.01	89	93	0.96	
<i>ytaG</i>	2,969,962	2,970,555	-	597	421	1.42	879	741	1.19	
<i>ytaF</i>	2,970,717	2,971,196	-	842	615	1.37	1379	1076	1.28	
<i>mutM</i>	2,971,368	2,972,204	-	834	641	1.30	1228	964	1.27	
<i>polA</i>	2,972,221	2,974,863	-	736	504	1.46	925	816	1.13	
<i>phoR</i>	2,975,107	2,976,846	-	480	454	1.06	537	595	0.90	
<i>phoP</i>	2,976,839	2,977,561	-	442	477	0.93	444	547	0.81	
<i>mdh</i>	2,977,773	2,978,711	-	6218	6826	0.91	5291	5258	1.01	
<i>icd</i>	2,978,755	2,980,026	-	7020	7500	0.94	6242	6093	1.02	
<i>ciuZ</i>	2,980,190	2,981,308	-	5717	6245	0.92	4841	4803	1.01	
<i>ytwI</i>	2,981,642	2,982,106	-	131	140	0.93	207	222	0.93	
<i>ytwI</i>	2,982,203	2,983,318	+	43	45	0.95	34	42	0.81	
<i>ytzA</i>	2,983,351	2,983,734	-	1727	1584	1.09	1954	1784	1.10	
<i>pyk</i>	2,983,827	2,985,584	-	2893	2670	1.08	2945	2828	1.04	
<i>pfkA</i>	2,985,627	2,986,586	-	2205	2034	1.08	2704	2733	0.99	
<i>accA</i>	2,986,770	2,987,747	-	1406	1337	1.05	1920	2056	0.93	
<i>accD</i>	2,987,732	2,988,520	-	1607	1573	1.02	2284	2377	0.96	Spo0A regulon
<i>ytsJ</i>	2,988,939	2,990,171	-	1091	1092	1.00	1261	1373	0.92	
<i>dnaE</i>	2,990,308	2,993,655	-	480	440	1.09	436	427	1.02	
<i>ytrI</i>	2,994,133	2,994,636	+	31	34	0.93	36	36	0.99	
<i>ytiQ</i>	2,994,947	2,995,888	-	340	361	0.94	619	731	0.85	
<i>ytpI</i>	2,996,019	2,996,321	+	597	478	1.25	405	437	0.93	
<i>ytoI</i>	2,996,340	2,997,659	-	245	249	0.98	255	311	0.82	
<i>ytmM</i>	2,997,835	2,998,737	-	66	69	0.96	58	63	0.91	
<i>ytmL</i>	2,998,756	3,000,006	-	58	58	1.00	57	57	1.00	
<i>ribR</i>	3,000,024	3,000,716	-	52	51	1.01	56	52	1.07	
<i>ytmJ</i>	3,000,763	3,002,091	-	61	67	0.91	59	63	0.94	
<i>ytmI</i>	3,002,088	3,002,369	-	69	68	1.01	79	79	1.00	
<i>ytmO</i>	3,002,384	3,003,388	-	93	95	0.98	80	95	0.84	
<i>ytmN</i>	3,003,385	3,004,164	-	123	120	1.02	90	118	0.77	
<i>ytmM</i>	3,004,161	3,004,868	-	46	45	1.00	41	44	0.93	
<i>ytmL</i>	3,004,898	3,005,617	-	42	41	1.03	40	44	0.91	
<i>ytmK</i>	3,005,639	3,006,451	-	60	53	1.13	51	62	0.83	
<i>ytmJ</i>	3,006,465	3,007,274	-	70	64	1.10	58	70	0.83	
<i>ytmI</i>	3,007,288	3,007,824	-	49	43	1.12	44	56	0.78	
<i>ytiI</i>	3,007,977	3,008,903	+	72	55	1.31	95	153	0.62	
<i>ytkL</i>	3,008,954	3,009,637	-	2853	2179	1.31	1701	1330	1.28	
<i>ytkK</i>	3,009,700	3,010,467	-	590	495	1.19	759	847	0.90	
<i>ytdD</i>	3,010,594	3,010,830	-	263	300	0.88	997	1284	0.78	
<i>argH</i>	3,010,790	3,012,175	-	835	905	0.92	2398	2747	0.87	
<i>argG</i>	3,012,172	3,013,383	-	477	454	1.05	1955	2373	0.82	
<i>moaB</i>	3,013,553	3,014,065	-	246	192	1.28	392	337	1.16	
<i>ackA</i>	3,014,150	3,015,337	-	734	591	1.24	1311	1159	1.13	
<i>ytxK</i>	3,015,685	3,016,674	-	637	617	1.03	685	667	1.03	
<i>tpx</i>	3,016,735	3,017,238	-	3341	3580	0.93	2867	2731	1.05	
<i>ytfJ</i>	3,017,348	3,017,803	-	47	52	0.90	51	57	0.89	
<i>ytfI</i>	3,017,817	3,018,497	-	65	67	0.97	78	77	1.02	
<i>yteJ</i>	3,018,572	3,019,066	-	986	1155	0.85	2593	2606	1.00	
<i>sppA</i>	3,019,079	3,020,086	-	902	923	0.98	1766	1936	0.91	

<i>ytdI</i>	3,020,272	3,021,075	+	839	1126	0.75	1092	1159	0.94
<i>ytcJ</i>	3,021,107	3,022,696	-	661	572	1.15	1068	928	1.15
<i>ytcI</i>	3,022,716	3,024,311	-	631	486	1.30	1133	1043	1.09
<i>sspA</i>	3,024,484	3,024,693	-	189	156	1.21	287	267	1.07
<i>ytbJ</i>	3,024,920	3,025,996	-	286	221	1.29	513	473	1.08
<i>nifZ</i>	3,026,000	3,027,145	-	209	189	1.11	267	264	1.01
<i>braB</i>	3,027,340	3,028,677	+	86	75	1.15	231	184	1.26
<i>ezrA</i>	3,028,772	3,030,460	-	1229	1290	0.95	1299	1590	0.82
<i>hisJ</i>	3,030,657	3,031,463	+	465	491	0.95	415	511	0.81
<i>ytpP</i>	3,031,460	3,032,083	-	59	68	0.86	66	78	0.85
<i>ytsP</i>	3,032,464	3,032,700	+	297	299	0.99	580	625	0.93
<i>ytrP</i>	3,032,738	3,034,477	-	458	319	1.44	258	272	0.95
<i>rpsD</i>	3,034,772	3,035,374	+	825	1051	0.78	1497	1737	0.86
<i>tyrS</i>	3,035,645	3,036,913	-	487	481	1.01	1163	1311	0.89
<i>acsA</i>	3,037,255	3,038,973	-	833	998	0.83	1091	1382	0.79
<i>acuA</i>	3,039,134	3,039,766	+	409	310	1.32	413	417	0.99
<i>acuB</i>	3,039,793	3,040,437	+	434	328	1.32	464	495	0.94
<i>acuC</i>	3,040,434	3,041,597	+	470	387	1.21	523	537	0.97
<i>ytxE</i>	3,041,608	3,042,336	-	90	100	0.91	179	240	0.74
<i>ytxD</i>	3,042,326	3,043,144	-	77	86	0.89	196	217	0.91
<i>ccpA</i>	3,043,207	3,044,211	-	489	494	0.99	822	906	0.91
<i>aroA</i>	3,044,486	3,045,562	-	1887	1857	1.02	3399	3409	1.00
<i>ytxJ</i>	3,045,798	3,046,124	-	4710	5239	0.90	2277	1916	1.19
<i>ytxH</i>	3,046,148	3,046,606	-	6707	7459	0.90	3929	3556	1.10
<i>ytxG</i>	3,046,634	3,047,065	-	6740	7410	0.91	4004	3358	1.19
<i>murC</i>	3,047,227	3,048,525	-	992	865	1.15	1375	1484	0.93
<i>ytpT</i>	3,048,775	3,050,883	-	624	381	1.64	1091	906	1.21
<i>ytpS</i>	3,050,838	3,051,632	-	510	388	1.32	679	660	1.03
<i>ytpR</i>	3,051,792	3,052,397	-	1172	1004	1.17	2061	1718	1.20
<i>ytpQ</i>	3,052,413	3,053,222	-	1049	755	1.39	1650	1439	1.15
<i>ytpP</i>	3,053,237	3,053,560	-	878	611	1.44	1354	1326	1.02
<i>ytoQ</i>	3,053,795	3,054,241	+	752	781	0.96	1220	1260	0.97
<i>ytoP</i>	3,054,296	3,055,369	-	742	747	0.99	840	897	0.94
<i>ytzB</i>	3,055,528	3,055,845	+	2058	1893	1.09	2298	2078	1.11
<i>malS</i>	3,055,898	3,057,598	-	3385	2698	1.25	3027	2267	1.34
<i>ytmP</i>	3,057,680	3,058,450	-	3792	2993	1.27	3385	2574	1.32
<i>ytmQ</i>	3,058,596	3,059,237	-	256	300	0.85	327	424	0.77
<i>ytzH</i>	3,059,444	3,059,722	+	22	27	0.83	25	27	0.92
<i>ytmP</i>	3,059,723	3,060,532	-	445	455	0.98	477	565	0.85
<i>amyX</i>	3,060,700	3,062,856	-	598	433	1.38	581	576	1.01
<i>ytlR</i>	3,062,882	3,063,811	-	1137	862	1.32	976	938	1.04
<i>ytlQ</i>	3,063,860	3,064,774	-	1111	989	1.12	1049	916	1.15
<i>ytlP</i>	3,064,800	3,065,351	-	609	515	1.18	773	658	1.17
<i>ytkP</i>	3,065,500	3,066,435	+	204	197	1.04	285	322	0.89
<i>ytlP</i>	3,066,469	3,067,860	+	1063	834	1.27	1363	1059	1.29
<i>ytlP</i>	3,067,957	3,069,255	+	107	87	1.22	116	120	0.97
<i>ythQ</i>	3,069,294	3,070,451	-	452	399	1.13	656	657	1.00
<i>ythP</i>	3,070,448	3,071,158	-	705	609	1.16	1000	939	1.07
<i>ytzE</i>	3,071,449	3,071,670	+	649	887	0.73	306	320	0.96
<i>ytzF</i>	3,071,791	3,072,264	-	207	164	1.26	241	238	1.01
<i>ytzG</i>	3,072,249	3,072,509	-	195	173	1.13	230	246	0.94
<i>ytgP</i>	3,072,578	3,074,212	-	312	266	1.17	359	421	0.85
<i>ytlP</i>	3,074,720	3,075,676	+	541	435	1.24	527	457	1.15
<i>opuD</i>	3,075,865	3,077,403	+	748	558	1.34	515	449	1.15
<i>yteV</i>	3,077,440	3,077,622	-	22	33	0.66	24	27	0.89
<i>yteU</i>	3,077,690	3,078,358	-	59	58	1.02	69	63	1.10
<i>yteT</i>	3,078,380	3,079,666	-	99	98	1.00	83	90	0.92
<i>yteS</i>	3,079,678	3,080,157	-	52	49	1.04	42	50	0.84
<i>yteR</i>	3,080,178	3,081,299	-	92	94	0.97	64	77	0.82
<i>yteQ</i>	3,081,307	3,081,798	-	90	89	1.01	73	91	0.80
<i>yteP</i>	3,081,893	3,082,273	-	35	39	0.90	34	35	0.95
<i>ytdP</i>	3,082,489	3,084,807	+	113	116	0.97	111	107	1.04
<i>ytcQ</i>	3,084,848	3,086,317	-	162	141	1.15	110	111	0.99
<i>ytcP</i>	3,086,370	3,087,230	-	90	89	1.01	55	61	0.90
<i>ytbQ</i>	3,087,437	3,088,042	-	1068	1032	1.03	1360	1324	1.03
<i>bioI</i>	3,088,275	3,089,462	-	947	1003	0.95	1557	1506	1.03
<i>bioB</i>	3,089,531	3,090,538	-	1838	1844	1.00	2687	2663	1.01
<i>bioD</i>	3,090,541	3,091,236	-	1955	1814	1.08	2442	2271	1.07
<i>bioF</i>	3,091,233	3,092,402	-	3341	3116	1.07	3686	3391	1.09
<i>bioA</i>	3,092,392	3,093,738	-	3169	2931	1.08	3215	2990	1.08
<i>bioW</i>	3,093,728	3,094,507	-	2557	2393	1.07	2960	2712	1.09
<i>ytaP</i>	3,094,714	3,095,613	-	68	73	0.93	69	72	0.95
<i>msmR</i>	3,095,831	3,096,865	+	88	92	0.96	84	102	0.83
<i>msmE</i>	3,096,899	3,098,179	+	82	103	0.80	86	116	0.74
<i>amyD</i>	3,098,172	3,099,083	+	57	74	0.77	65	85	0.77
<i>amyC</i>	3,099,080	3,099,910	+	74	84	0.88	69	93	0.74
<i>meIA</i>	3,099,930	3,101,228	+	137	143	0.96	154	182	0.85
<i>ytwF</i>	3,101,250	3,101,456	-	258	185	1.40	306	302	1.01
<i>leuS</i>	3,101,678	3,104,092	-	1016	838	1.21	1522	1450	1.05
<i>ytrB</i>	3,104,519	3,104,854	-	204	154	1.33	152	172	0.88
<i>ytrA</i>	3,105,259	3,106,044	+	251	192	1.31	287	229	1.26
<i>ytrB</i>	3,106,281	3,107,474	-	71	61	1.15	63	64	0.98
<i>ytrA</i>	3,107,669	3,108,409	+	356	330	1.08	445	514	0.87
<i>ytrD</i>	3,108,446	3,110,386	-	118	102	1.15	112	116	0.97
<i>ytrC</i>	3,110,376	3,111,137	-	104	93	1.11	101	112	0.90
<i>ytrB</i>	3,111,239	3,112,243	-	296	272	1.09	372	373	1.00
<i>ytrA</i>	3,112,236	3,112,931	-	223	213	1.05	240	265	0.90
<i>ytrF</i>	3,113,028	3,114,338	-	506	586	0.86	1042	1284	0.81
<i>ytrE</i>	3,114,328	3,115,023	-	333	346	0.96	619	810	0.76
<i>ytrD</i>	3,115,038	3,116,015	-	219	245	0.90	428	606	0.71
<i>ytrC</i>	3,116,045	3,117,031	-	241	250	0.96	412	592	0.70

Spo0A regulon

<i>ytrB</i>	3,117,025	3,117,903	-	265	279	0.95	394	584	0.67	
<i>ytrA</i>	3,117,896	3,118,288	-	232	253	0.92	306	507	0.60	
<i>ytzC</i>	3,118,614	3,118,886	-	137	138	1.00	90	67	1.34	
<i>ytaQ</i>	3,119,048	3,120,016	+	308	332	0.93	411	568	0.72	
<i>ytaB</i>	3,120,013	3,120,597	+	347	352	0.98	565	670	0.84	
<i>ytpB</i>	3,120,587	3,121,690	-	1034	802	1.29	1139	905	1.26	
<i>ytpA</i>	3,121,711	3,122,490	-	1326	966	1.37	1346	1117	1.20	
<i>ytoA</i>	3,122,539	3,123,054	+	187	222	0.84	255	306	0.83	
<i>ytmA</i>	3,123,299	3,124,690	-	437	392	1.11	783	810	0.97	
<i>asnB</i>	3,124,826	3,126,724	-	674	528	1.28	1193	1266	0.94	
<i>metK</i>	3,126,874	3,128,076	-	1042	993	1.05	1349	1595	0.85	
<i>pckA</i>	3,128,579	3,130,162	+	156	164	0.95	177	232	0.76	
<i>ytmB</i>	3,130,201	3,130,443	-	582	498	1.17	310	378	0.82	
<i>ytmA</i>	3,130,495	3,131,268	-	189	151	1.26	200	193	1.04	
<i>ytiA</i>	3,131,419	3,132,108	+	50	56	0.89	47	52	0.91	
<i>ytiB</i>	3,132,105	3,132,422	+	36	42	0.86	27	29	0.95	
<i>ytiC</i>	3,132,435	3,133,217	+	42	42	1.00	37	40	0.93	
<i>ytiD</i>	3,133,192	3,134,004	+	38	41	0.92	35	35	0.99	
<i>ytkD</i>	3,134,031	3,134,507	-	321	316	1.01	283	306	0.92	
<i>ytkC</i>	3,134,716	3,135,120	-	144	129	1.12	71	62	1.15	
<i>dps</i>	3,135,286	3,135,723	-	7707	8266	0.93	5264	4484	1.17	
<i>ytkA</i>	3,135,986	3,136,423	-	1188	1022	1.16	670	554	1.21	
<i>luxS</i>	3,136,543	3,137,016	-	1284	1179	1.09	1206	1055	1.14	
<i>ytiA</i>	3,137,145	3,137,372	+	189	226	0.84	131	207	0.63	
<i>ytiB</i>	3,137,369	3,137,932	-	785	737	1.07	707	786	0.90	
<i>ytiA</i>	3,138,026	3,138,274	-	2348	1869	1.26	1786	804	2.22	
<i>ythA</i>	3,138,494	3,139,810	+	65	67	0.97	49	60	0.82	
<i>ythB</i>	3,139,854	3,140,894	+	55	51	1.08	56	52	1.06	
<i>ythC</i>	3,140,943	3,141,110	+	126	113	1.11	87	118	0.74	
<i>mntD</i>	3,141,125	3,142,012	-	1857	1620	1.15	2162	1884	1.15	
<i>mntC</i>	3,142,002	3,143,309	-	2561	2207	1.16	3102	2773	1.12	
<i>mntB</i>	3,143,315	3,144,067	-	2709	2277	1.19	3461	3221	1.07	
<i>mntA</i>	3,144,086	3,145,006	-	2674	1984	1.35	3708	3576	1.04	
<i>menC</i>	3,145,286	3,146,401	-	1104	749	1.47	637	423	1.50	
<i>menE</i>	3,146,398	3,147,858	-	1108	816	1.36	696	499	1.40	
<i>menB</i>	3,147,949	3,148,764	-	2420	2034	1.19	2204	1824	1.21	
<i>ytxM</i>	3,148,799	3,149,623	-	578	400	1.44	555	410	1.35	
<i>menD</i>	3,149,611	3,151,353	-	400	287	1.40	440	361	1.22	
<i>menF</i>	3,151,350	3,152,765	-	466	336	1.39	673	619	1.09	
<i>yteA</i>	3,153,054	3,153,773	+	35	40	0.89	33	37	0.87	
<i>ytdA</i>	3,153,782	3,154,600	-	68	64	1.06	61	63	0.96	
<i>ytcA</i>	3,154,772	3,156,058	+	105	101	1.04	65	76	0.85	
<i>ytcB</i>	3,156,055	3,157,005	+	44	45	0.99	36	43	0.82	
<i>ytcC</i>	3,157,008	3,158,231	+	40	43	0.94	35	38	0.91	
<i>ytxO</i>	3,158,305	3,158,736	-	48	59	0.81	56	54	1.03	
<i>cotS</i>	3,158,738	3,159,793	-	127	138	0.92	123	144	0.86	
<i>cotSA</i>	3,159,808	3,160,941	-	156	148	1.05	127	138	0.92	
<i>ytaA</i>	3,161,131	3,162,204	+	37	42	0.87	38	41	0.94	
<i>ytaB</i>	3,162,284	3,162,751	+	1025	720	1.42	429	170	2.53	
<i>glgP</i>	3,162,782	3,165,178	-	100	96	1.04	111	112	0.99	
<i>glgA</i>	3,165,165	3,166,619	-	114	113	1.01	118	129	0.92	
<i>glgD</i>	3,166,616	3,167,647	-	92	91	1.01	96	100	0.96	
<i>glgC</i>	3,167,671	3,168,813	-	67	65	1.02	69	75	0.92	
<i>glgB</i>	3,168,810	3,170,693	-	49	55	0.89	49	57	0.86	
<i>yuaJ</i>	3,178,345	3,178,923	+	1058	1147	0.92	939	985	0.95	
<i>yuaI</i>	3,178,965	3,179,486	-	1572	1521	1.03	1867	2009	0.93	
<i>yuaG</i>	3,179,504	3,181,033	-	1603	1533	1.05	2194	2426	0.90	
<i>yuaF</i>	3,181,054	3,181,578	-	964	880	1.10	1301	1521	0.86	
<i>yuaE</i>	3,181,746	3,182,234	+	634	607	1.05	908	926	0.98	
<i>yuaD</i>	3,182,240	3,182,818	-	488	404	1.21	541	473	1.14	
<i>gbsB</i>	3,182,906	3,184,117	-	96	98	0.97	126	135	0.93	
<i>gbsA</i>	3,184,131	3,185,603	-	129	138	0.94	141	171	0.82	
<i>yuaC</i>	3,185,802	3,186,344	+	84	84	1.00	135	206	0.66	
<i>yuaB</i>	3,186,542	3,187,087	+	542	398	1.36	705	533	1.32	AbrB regulon
<i>yuaA</i>	3,187,453	3,188,121	+	144	133	1.08	143	144	0.99	
<i>yubG</i>	3,188,128	3,189,465	+	123	109	1.12	119	119	1.00	
<i>yubF</i>	3,189,501	3,189,764	-	1172	1290	0.91	2172	2097	1.04	
<i>yubE</i>	3,189,873	3,190,721	-	181	194	0.93	254	316	0.81	
<i>yubD</i>	3,190,882	3,192,417	-	316	254	1.24	210	218	0.96	
<i>yubC</i>	3,192,902	3,193,387	+	26	30	0.86	29	31	0.94	
<i>yubB</i>	3,193,674	3,194,504	-	353	300	1.18	542	499	1.09	
<i>yubA</i>	3,194,597	3,195,763	-	506	408	1.24	507	529	0.96	
<i>yulF</i>	3,195,945	3,196,931	+	405	338	1.20	585	544	1.07	
<i>yulE</i>	3,196,972	3,198,246	-	80	85	0.94	82	91	0.90	
<i>yulD</i>	3,198,272	3,198,586	-	69	67	1.03	93	91	1.02	
<i>yulC</i>	3,198,604	3,200,061	-	155	141	1.10	188	204	0.92	
<i>yulB</i>	3,200,066	3,200,842	-	167	157	1.06	204	210	0.97	
<i>yuxG</i>	3,200,899	3,202,968	-	78	86	0.91	83	106	0.78	
<i>tlpB</i>	3,203,106	3,205,094	-	906	678	1.34	853	544	1.57	SigD regulon
<i>mcpA</i>	3,205,208	3,207,193	-	2341	2982	0.79	1699	1948	0.87	SigD regulon
<i>tlpA</i>	3,207,319	3,209,307	-	778	790	0.98	698	701	1.00	AbrB and SigD regulon
<i>mcpB</i>	3,209,484	3,211,472	-	2298	2752	0.84	1389	1540	0.90	SigD regulon
<i>igl</i>	3,211,630	3,212,367	+	63	68	0.93	63	66	0.95	
<i>yugU</i>	3,212,892	3,213,320	-	1669	1352	1.23	917	529	1.73	
<i>yugT</i>	3,213,410	3,215,074	-	79	72	1.10	76	76	1.01	
<i>yugS</i>	3,215,201	3,216,505	-	66	75	0.88	61	70	0.87	
<i>yugP</i>	3,216,533	3,217,210	-	207	218	0.95	258	284	0.91	
<i>yugO</i>	3,217,562	3,218,878	+	195	130	1.50	64	68	0.95	
<i>yugN</i>	3,218,875	3,219,279	-	211	235	0.90	175	212	0.83	
<i>yugM</i>	3,219,339	3,219,710	-	270	321	0.84	300	327	0.92	
<i>pgi</i>	3,219,769	3,221,124	-	1578	1506	1.05	2218	2032	1.09	

<i>yugK</i>	3,221,236	3,222,408	-	289	315	0.92	399	354	1.13	
<i>yugJ</i>	3,222,512	3,223,675	-	1650	1887	0.87	1776	1669	1.06	
<i>yuzA</i>	3,223,905	3,224,141	+	735	485	1.52	429	174	2.46	
<i>yugI</i>	3,224,219	3,224,611	-	2049	1972	1.04	2710	3103	0.87	
<i>alaT</i>	3,224,813	3,225,973	-	1037	1050	0.99	1323	1609	0.82	
<i>alaR</i>	3,225,974	3,226,474	-	1357	1458	0.93	1677	2049	0.82	
<i>yugF</i>	3,226,622	3,227,443	+	80	70	1.15	64	66	0.98	
<i>yugE</i>	3,227,472	3,227,738	-	294	233	1.26	323	289	1.12	
<i>patB</i>	3,227,819	3,228,982	+	260	312	0.84	398	541	0.73	
<i>kinB</i>	3,229,108	3,230,397	+	261	145	1.80	271	250	1.08	
<i>kapB</i>	3,230,443	3,230,829	+	559	397	1.41	835	713	1.17	
<i>kapD</i>	3,230,856	3,231,473	-	123	106	1.17	130	143	0.91	
<i>yuxJ</i>	3,231,684	3,232,862	+	106	101	1.05	93	92	1.01	
<i>pbpD</i>	3,232,955	3,234,829	+	577	511	1.13	700	710	0.99	
<i>yuxK</i>	3,234,850	3,235,263	+	366	290	1.26	404	387	1.04	
<i>yufK</i>	3,235,466	3,236,080	-	140	121	1.16	166	178	0.93	
<i>yufL</i>	3,236,201	3,237,802	+	443	419	1.06	393	407	0.97	
<i>yufM</i>	3,237,795	3,238,502	+	572	434	1.32	516	498	1.03	
<i>yufN</i>	3,239,001	3,240,053	+	2053	2004	1.02	1649	1561	1.06	
<i>yufO</i>	3,240,129	3,241,661	+	1005	873	1.15	934	779	1.20	
<i>yufP</i>	3,241,654	3,242,700	+	730	569	1.28	626	509	1.23	
<i>yufQ</i>	3,242,701	3,243,660	+	494	385	1.28	400	347	1.15	
<i>maeN</i>	3,243,814	3,245,160	+	104	109	0.95	99	99	1.00	
<i>yufS</i>	3,245,196	3,245,411	-	64	56	1.14	49	56	0.88	
<i>mrpA</i>	3,245,723	3,248,047	+	400	361	1.11	571	591	0.97	
<i>mrpB</i>	3,248,040	3,248,471	+	375	338	1.11	618	586	1.06	
<i>mrpC</i>	3,248,471	3,248,812	+	256	238	1.08	392	360	1.09	
<i>mrpD</i>	3,248,805	3,250,286	+	386	356	1.08	589	555	1.06	
<i>mrpE</i>	3,250,292	3,250,768	+	344	337	1.02	515	448	1.15	
<i>mrpF</i>	3,250,768	3,251,052	+	201	207	0.97	309	244	1.27	
<i>mrpG</i>	3,251,036	3,251,410	+	183	178	1.03	208	208	1.00	
<i>yuxO</i>	3,251,449	3,251,829	-	305	263	1.16	519	514	1.01	
<i>comA</i>	3,251,848	3,252,492	-	611	550	1.11	1182	1243	0.95	
<i>comP</i>	3,252,573	3,254,882	-	885	805	1.10	661	809	0.82	
<i>comX</i>	3,254,897	3,255,064	-	1691	1691	1.00	1416	1655	0.86	
<i>comQ</i>	3,255,052	3,255,951	-	668	680	0.98	633	628	1.01	
<i>yuzC</i>	3,256,737	3,257,105	+	122	128	0.95	100	141	0.71	
<i>yuxH</i>	3,257,081	3,258,310	-	517	481	1.07	446	478	0.93	
<i>yueK</i>	3,258,447	3,259,919	-	1447	1430	1.01	1782	1697	1.05	
<i>yueJ</i>	3,259,935	3,260,486	-	1244	1259	0.99	1348	1326	1.02	
<i>yueI</i>	3,260,583	3,260,981	-	467	348	1.34	496	490	1.01	
<i>yueH</i>	3,261,053	3,261,301	-	426	352	1.21	467	436	1.07	
<i>yueG</i>	3,261,374	3,261,595	-	158	125	1.26	275	223	1.23	
<i>yueF</i>	3,261,655	3,262,764	-	383	306	1.25	407	384	1.06	
<i>yuzE</i>	3,262,879	3,263,268	+	45	46	0.98	51	58	0.89	
<i>yuzF</i>	3,263,309	3,263,545	-	727	850	0.85	401	423	0.95	
<i>yueE</i>	3,263,722	3,264,252	-	1095	1282	0.85	709	731	0.97	
<i>yueD</i>	3,264,450	3,265,181	-	650	618	1.05	1120	1028	1.09	
<i>yueC</i>	3,265,244	3,265,699	-	541	522	1.04	1205	1108	1.09	
<i>yueB</i>	3,265,731	3,268,961	-	410	411	1.00	1282	1168	1.10	
<i>yukA</i>	3,268,958	3,272,581	-	347	292	1.19	885	770	1.15	
<i>yukB</i>	3,272,581	3,273,456	-	347	255	1.36	678	645	1.05	
<i>yukC</i>	3,273,484	3,274,839	-	400	312	1.28	714	682	1.05	
<i>yukD</i>	3,274,854	3,275,093	-	530	453	1.17	848	753	1.13	
<i>yukE</i>	3,275,237	3,275,479	-	7699	7361	1.05	6844	6049	1.13	
<i>yukF</i>	3,275,976	3,277,280	+	201	171	1.18	311	256	1.22	
<i>ald</i>	3,277,348	3,278,484	+	1044	1684	0.62	402	772	0.52	
<i>yuxI</i>	3,278,597	3,278,920	+	874	1142	0.77	608	628	0.97	
<i>yukJ</i>	3,278,838	3,279,275	+	289	382	0.76	365	284	1.28	
<i>dhbF</i>	3,279,544	3,286,680	-	457	671	0.68	289	429	0.67	AbrB regulon
<i>dhbB</i>	3,286,700	3,287,638	-	362	526	0.69	215	362	0.60	AbrB regulon
<i>dhbE</i>	3,287,666	3,289,285	-	336	427	0.79	200	322	0.62	AbrB regulon
<i>dhbC</i>	3,289,314	3,290,510	-	468	557	0.84	228	375	0.61	AbrB regulon
<i>dhbA</i>	3,290,536	3,291,321	-	452	506	0.89	212	358	0.59	AbrB regulon
<i>yuiI</i>	3,291,515	3,292,459	-	738	689	1.07	428	594	0.72	AbrB regulon
<i>yuiH</i>	3,292,598	3,293,194	-	168	136	1.24	164	158	1.04	
<i>yuiG</i>	3,293,295	3,293,897	+	1500	1399	1.07	1906	1549	1.23	
<i>yuiF</i>	3,293,967	3,295,295	-	478	381	1.26	531	642	0.83	
<i>yuiE</i>	3,295,442	3,296,944	-	742	681	1.09	889	846	1.05	
<i>yuiD</i>	3,297,102	3,297,578	+	272	316	0.86	217	172	1.26	
<i>yuiC</i>	3,297,609	3,298,265	-	220	275	0.80	229	374	0.61	
<i>yuiB</i>	3,298,369	3,298,689	-	1026	1245	0.82	748	1035	0.72	
<i>yuiA</i>	3,298,743	3,298,886	-	2780	3625	0.77	1398	1921	0.73	
<i>yumB</i>	3,299,059	3,300,279	-	512	509	1.01	414	460	0.90	
<i>yumC</i>	3,300,611	3,301,609	+	1055	1096	0.96	1211	1742	0.70	
<i>guaC</i>	3,302,067	3,303,047	+	372	377	0.99	147	170	0.86	
<i>paiB</i>	3,303,121	3,303,744	-	183	207	0.89	199	275	0.72	
<i>paiA</i>	3,303,768	3,304,286	-	98	126	0.78	127	194	0.65	
<i>yuiM</i>	3,304,624	3,304,986	-	1882	1876	1.00	1914	1871	1.02	
<i>dapF</i>	3,305,065	3,305,919	-	326	409	0.80	385	459	0.84	
<i>yuiK</i>	3,306,042	3,307,256	-	66	78	0.85	98	98	1.00	
<i>yuzB</i>	3,307,393	3,307,629	-	30	36	0.83	62	68	0.91	
<i>yutJ</i>	3,307,892	3,308,884	+	973	1107	0.88	998	1232	0.81	
<i>yuzD</i>	3,308,986	3,309,312	-	275	279	0.99	266	328	0.81	
<i>yutI</i>	3,309,412	3,309,747	+	990	1185	0.84	992	1068	0.93	
<i>yuxL</i>	3,309,789	3,311,762	-	126	153	0.82	141	172	0.82	
<i>thrB</i>	3,311,870	3,312,799	-	1964	2284	0.86	2490	2717	0.92	
<i>thrC</i>	3,312,796	3,313,854	-	2617	3105	0.84	3157	3448	0.92	
<i>hom</i>	3,313,854	3,315,155	-	1607	2198	0.73	1882	2299	0.82	
<i>yutH</i>	3,315,356	3,316,375	-	115	113	1.02	134	132	1.02	
<i>yutG</i>	3,316,528	3,317,028	+	59	57	1.03	42	51	0.81	

<i>yutF</i>	3,317,055	3,317,825	-	621	658	0.94	998	943	1.06	
<i>yutE</i>	3,317,854	3,318,288	-	699	700	1.00	1014	971	1.04	
<i>yutD</i>	3,318,312	3,318,620	-	752	721	1.04	975	884	1.10	
<i>yutC</i>	3,318,702	3,319,334	+	80	71	1.14	72	68	1.07	
<i>lipA</i>	3,319,350	3,320,246	-	1393	1272	1.10	2334	2235	1.04	
<i>yunA</i>	3,320,412	3,321,461	+	80	80	0.99	69	78	0.89	
<i>yunB</i>	3,321,489	3,322,253	-	158	138	1.15	227	237	0.96	
<i>yunC</i>	3,322,326	3,322,631	-	400	349	1.15	519	528	0.98	
<i>yunD</i>	3,322,696	3,324,084	-	669	536	1.25	738	699	1.05	
<i>yunE</i>	3,324,104	3,324,925	-	573	500	1.15	647	616	1.05	
<i>yunF</i>	3,324,943	3,325,797	-	602	531	1.13	652	661	0.99	
<i>yunG</i>	3,325,829	3,326,176	-	452	441	1.02	392	397	0.99	
<i>pucH</i>	3,326,273	3,327,613	-	153	151	1.02	144	145	1.00	
<i>pucR</i>	3,327,788	3,329,383	+	130	123	1.06	105	102	1.03	
<i>pucJ</i>	3,329,528	3,330,877	+	106	103	1.03	99	104	0.95	
<i>pucK</i>	3,330,883	3,332,175	+	95	92	1.04	70	80	0.87	
<i>pucL</i>	3,332,188	3,333,672	+	122	116	1.05	110	114	0.96	
<i>pucM</i>	3,333,651	3,334,016	+	129	112	1.15	156	140	1.11	
<i>pucE</i>	3,334,777	3,335,298	-	86	77	1.11	62	70	0.88	
<i>pucD</i>	3,335,289	3,337,526	-	127	126	1.00	104	110	0.94	
<i>pucC</i>	3,337,527	3,338,360	-	70	72	0.97	54	60	0.90	
<i>pucB</i>	3,338,382	3,338,975	-	75	82	0.91	61	83	0.74	
<i>pucA</i>	3,338,972	3,339,964	-	65	72	0.91	50	64	0.77	
<i>yurG</i>	3,340,193	3,341,443	-	246	252	0.98	225	254	0.88	
<i>yurH</i>	3,341,460	3,342,698	-	155	171	0.90	137	172	0.80	
<i>yurI</i>	3,343,140	3,344,006	+	336	329	1.02	304	337	0.90	AbrB regulon
<i>yurJ</i>	3,344,040	3,345,143	-	243	871	0.28	276	838	0.33	
<i>yurK</i>	3,345,325	3,346,053	+	232	412	0.56	236	631	0.37	
<i>yurL</i>	3,346,078	3,346,932	-	184	792	0.23	170	623	0.27	
<i>yurM</i>	3,346,946	3,347,848	-	131	594	0.22	123	452	0.27	
<i>yurN</i>	3,347,852	3,348,730	-	134	667	0.20	105	596	0.18	
<i>yurO</i>	3,348,788	3,350,056	-	254	1360	0.19	241	1391	0.17	
<i>yurP</i>	3,350,137	3,351,123	-	718	3521	0.20	765	3166	0.24	
<i>yurQ</i>	3,351,339	3,351,713	-	297	303	0.98	644	635	1.01	
<i>yurR</i>	3,351,816	3,352,934	-	475	405	1.17	487	480	1.01	
<i>yurS</i>	3,353,239	3,353,514	+	27	36	0.75	24	26	0.91	
<i>yurT</i>	3,353,578	3,353,961	-	206	173	1.19	366	384	0.95	
<i>yurU</i>	3,354,620	3,356,017	-	2662	2809	0.95	3200	3330	0.96	
<i>yurV</i>	3,356,038	3,356,481	-	2894	2955	0.98	3317	3265	1.02	
<i>csd</i>	3,356,471	3,357,691	-	2424	2416	1.00	2886	2967	0.97	
<i>yurX</i>	3,357,691	3,359,004	-	3263	3159	1.03	3667	3760	0.98	
<i>yurY</i>	3,359,022	3,359,807	-	2652	2318	1.14	2707	3004	0.90	
<i>yurZ</i>	3,360,332	3,360,709	-	50	55	0.91	53	68	0.77	
<i>yusA</i>	3,360,794	3,361,618	-	1215	1553	0.78	2298	3110	0.74	
<i>yusB</i>	3,361,632	3,362,300	-	449	594	0.76	872	1357	0.64	
<i>yusC</i>	3,362,293	3,363,318	-	467	650	0.72	1004	1486	0.68	
<i>yusD</i>	3,363,645	3,363,989	-	377	337	1.12	390	409	0.95	
<i>yusE</i>	3,364,096	3,364,416	-	260	238	1.09	301	301	1.00	Spo0A regulon
<i>yusF</i>	3,364,418	3,364,858	-	513	478	1.07	766	714	1.07	
<i>yusG</i>	3,364,858	3,365,094	-	1111	1182	0.94	1949	1855	1.05	
<i>gcvH</i>	3,365,150	3,365,533	-	4599	4725	0.97	5103	4623	1.10	
<i>yusI</i>	3,365,600	3,365,956	-	742	687	1.08	1609	1673	0.96	
<i>yusJ</i>	3,366,067	3,367,851	-	133	129	1.03	138	137	1.01	
<i>yusK</i>	3,367,866	3,369,041	-	186	190	0.98	189	220	0.86	
<i>yusL</i>	3,369,052	3,371,499	-	156	140	1.11	175	188	0.93	
<i>yusM</i>	3,371,767	3,372,675	-	74	74	1.01	52	66	0.79	
<i>yusN</i>	3,373,028	3,373,360	+	39	39	0.99	41	38	1.08	
<i>yusO</i>	3,373,519	3,373,986	+	495	442	1.12	558	564	0.99	
<i>yusP</i>	3,373,983	3,375,608	+	441	335	1.31	529	477	1.11	
<i>yusQ</i>	3,375,644	3,376,027	-	79	85	0.93	66	74	0.89	
<i>yusR</i>	3,376,046	3,376,435	-	100	104	0.96	82	94	0.87	
<i>yusS</i>	3,376,457	3,376,786	-	81	97	0.83	86	92	0.94	
<i>yusT</i>	3,376,920	3,377,807	+	103	119	0.87	89	109	0.81	
<i>yusU</i>	3,377,827	3,378,114	-	393	509	0.77	351	528	0.67	
<i>yusV</i>	3,378,139	3,378,966	-	806	1022	0.79	493	816	0.60	
<i>yusW</i>	3,379,184	3,379,621	-	105	109	0.96	136	174	0.78	
<i>yusX</i>	3,379,731	3,381,233	-	848	944	0.90	969	1060	0.91	
<i>yusY</i>	3,381,230	3,381,526	-	672	705	0.95	624	716	0.87	
<i>yusZ</i>	3,381,660	3,382,502	+	192	212	0.90	240	267	0.90	
<i>mrgA</i>	3,382,592	3,383,053	+	657	703	0.93	953	1220	0.78	
<i>yvtA</i>	3,383,097	3,384,473	-	1669	1271	1.31	2390	2808	0.85	
<i>cssR</i>	3,384,751	3,385,428	+	408	409	1.00	555	519	1.07	
<i>cssS</i>	3,385,425	3,386,780	+	607	568	1.07	818	805	1.02	
<i>yuxN</i>	3,387,140	3,388,015	+	232	190	1.22	262	290	0.90	
<i>citG</i>	3,388,051	3,389,439	-	1583	1947	0.81	2370	2609	0.91	
<i>gerAA</i>	3,389,809	3,391,257	+	54	60	0.89	45	53	0.85	
<i>gerAB</i>	3,391,226	3,392,323	+	26	33	0.78	31	34	0.92	
<i>gerAC</i>	3,392,320	3,393,441	+	49	56	0.88	48	54	0.89	
<i>yvqC</i>	3,393,449	3,394,084	-	335	280	1.20	470	382	0.97	
<i>yvqE</i>	3,394,062	3,395,144	-	344	293	1.17	367	414	0.89	
<i>yvqF</i>	3,395,141	3,395,866	-	303	266	1.14	315	346	0.91	
<i>yvqG</i>	3,395,900	3,396,622	-	289	260	1.11	371	450	0.83	
<i>yvqH</i>	3,396,872	3,397,549	-	309	223	1.39	513	261	1.97	
<i>yvqI</i>	3,397,576	3,397,956	-	205	129	1.59	237	146	1.63	
<i>yvqJ</i>	3,398,118	3,399,386	-	297	289	1.03	323	305	1.06	AbrB regulon
<i>yvqK</i>	3,399,563	3,400,144	-	213	210	1.01	299	313	0.96	
<i>yvrA</i>	3,400,167	3,401,495	-	282	255	1.11	389	403	0.97	
<i>yvrB</i>	3,401,495	3,402,556	-	158	157	1.01	249	256	0.97	
<i>yvrC</i>	3,402,519	3,403,463	-	575	605	0.95	840	944	0.89	
<i>yvrD</i>	3,403,861	3,404,652	+	365	371	0.98	522	511	1.02	
<i>yvrE</i>	3,404,690	3,405,568	-	2214	1738	1.27	1315	803	1.64	

<i>yvrG</i>	3,405,640	3,407,361	-	582	406	1.44	818	709	1.15	
<i>yvrH</i>	3,407,379	3,408,488	-	157	154	1.02	158	161	0.99	
<i>yvrI</i>	3,408,492	3,409,067	-	65	83	0.78	73	86	0.86	
<i>oxdC</i>	3,409,496	3,410,653	+	465	988	0.47	437	803	0.54	
<i>yvrL</i>	3,410,714	3,411,124	+	62	89	0.69	80	111	0.71	
<i>yvrN</i>	3,411,158	3,412,408	-	908	801	1.13	1214	1279	0.95	AbrB regulon
<i>yvrO</i>	3,412,380	3,413,069	-	1081	979	1.10	1499	1674	0.90	AbrB regulon
<i>yvrP</i>	3,413,053	3,414,246	-	912	1028	0.89	1198	1517	0.79	AbrB regulon
<i>fluC</i>	3,414,417	3,415,226	-	572	561	1.02	487	600	0.81	
<i>fluG</i>	3,415,242	3,416,252	-	343	299	1.15	259	315	0.82	
<i>fluB</i>	3,416,252	3,417,406	-	335	327	1.02	217	299	0.73	
<i>fluD</i>	3,417,504	3,418,451	+	1721	2134	0.81	851	1295	0.66	
<i>yvsH</i>	3,418,686	3,420,095	-	275	229	1.20	496	559	0.89	
<i>sspJ</i>	3,420,495	3,420,635	-	81	79	1.03	65	47	1.38	
<i>yvsG</i>	3,420,802	3,421,284	+	137	103	1.33	159	148	1.07	
<i>yvgJ</i>	3,421,384	3,423,237	+	236	165	1.43	353	281	1.26	
<i>yvgK</i>	3,423,265	3,424,191	-	589	520	1.13	592	528	1.12	
<i>yvgL</i>	3,424,302	3,425,084	+	194	174	1.12	169	202	0.83	
<i>yvgM</i>	3,425,188	3,425,748	+	99	97	1.02	107	128	0.84	
<i>yvgN</i>	3,425,779	3,426,609	-	1567	1784	0.88	1725	1800	0.96	
<i>yvgO</i>	3,426,832	3,427,317	+	4318	2901	1.49	2800	1150	2.43	AbrB regulon
<i>yvgP</i>	3,427,361	3,429,373	-	559	439	1.27	667	623	1.07	
<i>yvgQ</i>	3,429,628	3,431,343	-	2419	2402	1.01	2770	2931	0.95	
<i>yvgR</i>	3,431,369	3,433,186	-	1754	1665	1.05	2283	2510	0.91	
<i>yvgS</i>	3,433,357	3,435,681	-	316	243	1.30	440	356	1.23	
<i>yvgT</i>	3,435,879	3,436,487	-	153	167	0.92	141	164	0.86	
<i>bdbC</i>	3,436,674	3,437,090	-	928	856	1.08	716	787	0.91	
<i>bdbD</i>	3,437,095	3,437,763	-	1716	1568	1.09	1213	1339	0.91	
<i>yvgW</i>	3,437,883	3,439,991	-	1052	1363	0.77	455	537	0.85	
<i>yvgX</i>	3,440,151	3,442,562	-	2606	1848	1.41	730	776	0.94	
<i>yvgY</i>	3,442,643	3,442,852	-	2055	1499	1.37	540	528	1.02	
<i>yvgZ</i>	3,442,926	3,443,231	-	920	759	1.21	573	433	1.32	
<i>yvaA</i>	3,443,359	3,444,435	+	4330	4405	0.98	3472	2943	1.18	
<i>yvaB</i>	3,444,472	3,445,107	-	548	1245	0.44	686	1607	0.43	
<i>yvaC</i>	3,445,267	3,447,162	-	84	86	0.98	68	78	0.87	
<i>yvaD</i>	3,447,325	3,447,726	-	89	94	0.95	119	113	1.05	
<i>yvaE</i>	3,447,723	3,448,082	-	198	205	0.97	183	179	1.02	
<i>yvaF</i>	3,448,079	3,448,651	-	150	154	0.98	150	152	0.99	
<i>yvaG</i>	3,448,762	3,449,556	-	407	362	1.13	389	309	1.26	
<i>smpB</i>	3,450,278	3,450,748	-	1957	1154	1.70	998	1145	0.87	
<i>rnr</i>	3,450,893	3,453,232	-	3236	2006	1.61	1472	1101	1.34	
<i>yvaK</i>	3,453,251	3,453,997	-	2104	1437	1.46	1440	1074	1.34	
<i>secG</i>	3,454,123	3,454,353	-	1787	2022	0.88	1076	1190	0.90	
<i>yvaM</i>	3,454,502	3,455,272	+	106	95	1.11	101	88	1.15	
<i>yvzC</i>	3,455,312	3,455,545	-	33	30	1.08	31	31	1.00	
<i>yvaN</i>	3,455,697	3,456,104	+	255	269	0.95	304	368	0.82	
<i>yvaO</i>	3,456,134	3,456,553	+	139	143	0.98	189	223	0.84	
<i>yvaP</i>	3,456,396	3,457,106	+	181	167	1.08	187	211	0.89	
<i>yvaQ</i>	3,457,097	3,458,797	+	719	849	0.85	415	374	1.11	
<i>opuBD</i>	3,458,837	3,459,517	-	155	201	0.77	325	499	0.65	
<i>opuBC</i>	3,459,534	3,460,454	-	167	222	0.75	697	1101	0.63	
<i>opuBB</i>	3,460,466	3,461,119	-	118	150	0.79	509	785	0.65	
<i>opuBA</i>	3,461,136	3,462,281	-	148	148	1.00	581	968	0.60	
<i>yvaV</i>	3,462,556	3,463,098	+	238	179	1.33	273	318	0.86	
<i>yvaW</i>	3,463,320	3,463,796	+	497	550	0.90	1158	1926	0.60	Spo0A and AbrB regulon
<i>yvaX</i>	3,463,793	3,464,764	+	457	441	1.04	1193	1899	0.63	
<i>yvaY</i>	3,464,807	3,465,418	+	4063	4814	0.84	5165	5062	1.02	
<i>yvaZ</i>	3,465,465	3,466,088	-	611	1580	0.39	368	586	0.63	
<i>yvbA</i>	3,466,085	3,466,357	-	689	1886	0.37	253	514	0.49	
<i>opuCD</i>	3,466,577	3,467,266	-	1504	1748	0.86	2145	2504	0.86	
<i>opuCC</i>	3,467,284	3,468,195	-	1914	1961	0.98	2869	3431	0.84	
<i>opuCB</i>	3,468,215	3,468,868	-	1205	1120	1.08	1934	2410	0.80	
<i>opuCA</i>	3,468,891	3,470,033	-	1508	1166	1.29	2363	3127	0.76	
<i>yvbF</i>	3,470,297	3,470,854	+	335	283	1.18	545	723	0.75	
<i>yvbG</i>	3,470,872	3,471,507	-	296	261	1.14	118	83	1.43	
<i>yvbH</i>	3,471,657	3,472,271	+	295	309	0.95	592	721	0.82	
<i>yvbI</i>	3,472,403	3,473,101	+	133	161	0.83	264	429	0.62	
<i>yvbJ</i>	3,473,137	3,474,954	-	606	679	0.89	1205	1456	0.83	
<i>yvbK</i>	3,475,074	3,475,541	+	356	331	1.08	468	479	0.98	
<i>eno</i>	3,475,586	3,476,878	-	4366	4807	0.91	4171	3903	1.07	
<i>pgm</i>	3,476,908	3,478,443	-	5803	6150	0.94	5248	4820	1.09	
<i>tpiA</i>	3,478,436	3,479,197	-	4684	4813	0.97	3758	3423	1.10	
<i>pgk</i>	3,479,228	3,480,412	-	5610	5896	0.95	4899	4497	1.09	
<i>gapA</i>	3,480,729	3,481,736	-	7884	8203	0.96	6173	5695	1.08	
<i>cggR</i>	3,481,783	3,482,805	-	2392	2496	0.96	2140	2225	0.96	
<i>araE</i>	3,483,103	3,484,497	-	68	67	1.02	49	56	0.88	
<i>araR</i>	3,484,635	3,485,789	+	298	248	1.20	334	351	0.95	
<i>yvbT</i>	3,485,838	3,486,848	-	177	171	1.03	211	239	0.88	
<i>yvbU</i>	3,487,005	3,487,883	-	60	62	0.97	64	70	0.91	
<i>yvbV</i>	3,487,983	3,488,900	+	105	109	0.97	77	93	0.83	
<i>yvbW</i>	3,488,941	3,490,284	-	162	182	0.89	193	250	0.77	
<i>yvbX</i>	3,490,686	3,491,720	-	1354	1655	0.82	1309	1484	0.88	
<i>yvbY</i>	3,491,828	3,492,550	-	5825	5409	1.08	5045	4745	1.06	
<i>yvfW</i>	3,492,550	3,493,989	-	4590	4366	1.05	4822	4494	1.07	
<i>yvfV</i>	3,494,016	3,494,732	-	3709	3489	1.06	4255	4168	1.02	
<i>yvfU</i>	3,494,907	3,495,509	-	181	157	1.15	174	214	0.81	
<i>yvfT</i>	3,495,526	3,496,512	-	196	172	1.14	189	211	0.89	
<i>yvfS</i>	3,496,645	3,497,382	-	72	71	1.01	69	85	0.81	
<i>yvfR</i>	3,497,383	3,498,288	-	77	76	1.02	67	72	0.93	
<i>rsbQ</i>	3,498,572	3,499,381	+	308	264	1.17	276	324	0.85	
<i>rsbP</i>	3,499,417	3,500,628	+	378	300	1.26	394	421	0.94	

<i>yvfO</i>	3,500,682	3,501,971	-	91	91	1.00	70	93	0.75	
<i>lacA</i>	3,502,051	3,504,114	-	108	120	0.90	108	133	0.82	
<i>yvfM</i>	3,504,133	3,504,984	-	84	94	0.90	80	109	0.73	
<i>yvfL</i>	3,504,988	3,506,244	-	62	71	0.87	68	83	0.82	
<i>yvfK</i>	3,506,284	3,507,549	-	114	120	0.95	107	143	0.75	
<i>lacR</i>	3,507,690	3,508,682	-	130	127	1.03	157	166	0.95	
<i>yvfI</i>	3,508,862	3,509,389	-	423	408	1.04	312	373	0.84	
<i>yvfH</i>	3,509,811	3,511,502	+	820	1083	0.76	841	1077	0.78	
<i>sigL</i>	3,511,529	3,512,839	-	1023	1077	0.95	836	815	1.03	
<i>yvfG</i>	3,512,918	3,513,136	+	457	379	1.21	518	485	1.07	
<i>yvfF</i>	3,513,146	3,514,114	-	380	133	2.87	337	150	2.25	AbrB regulon
<i>yvfE</i>	3,514,093	3,515,259	-	507	150	3.38	478	183	2.62	AbrB regulon
<i>yvfD</i>	3,515,264	3,515,914	-	384	154	2.49	335	163	2.05	AbrB regulon
<i>yvfC</i>	3,515,911	3,516,519	-	387	135	2.86	363	173	2.10	AbrB regulon
<i>yvfB</i>	3,516,516	3,517,553	-	333	119	2.80	330	135	2.44	AbrB regulon
<i>yvfA</i>	3,517,703	3,518,032	-	289	87	3.31	300	118	2.55	AbrB regulon
<i>yveT</i>	3,518,029	3,519,063	-	476	186	2.55	524	217	2.41	AbrB regulon
<i>yveS</i>	3,519,060	3,520,136	-	334	139	2.40	359	157	2.28	AbrB regulon
<i>yveR</i>	3,520,141	3,521,175	-	351	190	1.85	494	227	2.17	AbrB regulon
<i>yveQ</i>	3,521,200	3,522,303	-	252	87	2.90	314	125	2.51	AbrB regulon
<i>yveP</i>	3,522,300	3,523,454	-	228	102	2.25	258	126	2.05	AbrB regulon
<i>yveO</i>	3,523,447	3,524,283	-	294	111	2.66	321	159	2.01	AbrB regulon
<i>yveN</i>	3,524,280	3,525,425	-	435	177	2.45	455	219	2.07	AbrB regulon
<i>yveM</i>	3,525,437	3,527,233	-	384	192	2.00	317	184	1.73	AbrB regulon
<i>yveL</i>	3,527,492	3,528,175	-	317	119	2.67	287	134	2.15	AbrB regulon
<i>yveK</i>	3,528,181	3,528,885	-	423	126	3.36	376	171	2.20	AbrB regulon
<i>slr</i>	3,529,131	3,529,589	+	141	80	1.76	150	88	1.71	
<i>pnbA</i>	3,529,665	3,531,134	+	558	390	1.43	944	804	1.17	AbrB regulon
<i>padC</i>	3,531,355	3,531,840	-	98	96	1.02	125	135	0.92	
<i>yveG</i>	3,531,863	3,532,150	-	86	86	1.00	100	94	1.07	
<i>racX</i>	3,532,449	3,533,132	-	3310	2327	1.42	3172	2276	1.39	
<i>pbbE</i>	3,533,148	3,534,503	-	3043	2064	1.47	2913	2091	1.39	
<i>sacB</i>	3,535,042	3,536,463	+	44	52	0.85	44	49	0.90	
<i>yveB</i>	3,536,537	3,538,087	+	78	78	1.01	57	65	0.88	
<i>yveA</i>	3,538,195	3,539,757	+	46	45	1.03	37	39	0.94	
<i>yvdT</i>	3,539,852	3,540,436	+	582	544	1.07	351	361	0.97	
<i>yvdS</i>	3,540,518	3,540,853	+	120	106	1.14	67	75	0.89	
<i>yvdR</i>	3,540,853	3,541,173	+	129	109	1.19	90	94	0.96	
<i>yvdQ</i>	3,541,209	3,541,721	-	106	96	1.10	79	109	0.72	
<i>yvdP</i>	3,541,973	3,543,316	-	95	71	1.35	75	72	1.04	
<i>yvdO</i>	3,543,672	3,544,634	+	55	55	1.01	53	56	0.94	
<i>clpP</i>	3,545,264	3,545,857	+	3455	3240	1.07	2755	2472	1.11	
<i>pgcM</i>	3,545,903	3,546,583	-	147	121	1.21	119	118	1.01	
<i>malL</i>	3,546,580	3,548,265	-	154	137	1.12	150	142	1.05	
<i>yvdK</i>	3,548,258	3,550,531	-	138	131	1.05	128	139	0.92	
<i>yvdJ</i>	3,550,509	3,551,393	-	67	70	0.96	70	73	0.96	
<i>yvdI</i>	3,551,399	3,552,235	-	68	78	0.88	65	73	0.89	
<i>yvdH</i>	3,552,236	3,553,543	-	73	85	0.85	67	81	0.82	
<i>yvdG</i>	3,553,583	3,554,836	-	99	104	0.95	101	112	0.91	
<i>yvdF</i>	3,554,932	3,556,701	-	78	81	0.97	67	73	0.93	
<i>yvdE</i>	3,556,814	3,557,764	-	67	71	0.95	64	60	1.07	
<i>yvdD</i>	3,557,970	3,558,545	-	1413	1299	1.09	2043	2023	1.01	
<i>yvdC</i>	3,558,662	3,558,982	+	638	601	1.06	893	1071	0.83	
<i>yvdB</i>	3,559,009	3,560,601	-	128	133	0.96	116	123	0.94	
<i>yvdA</i>	3,560,620	3,561,213	-	126	134	0.94	95	103	0.92	
<i>yvcT</i>	3,561,596	3,562,573	+	1208	1075	1.12	2072	1773	1.17	
<i>yvcS</i>	3,562,611	3,564,551	-	209	208	1.00	273	290	0.94	
<i>yvcR</i>	3,564,526	3,565,305	-	424	401	1.06	595	656	0.91	
<i>yvcQ</i>	3,565,388	3,566,458	-	268	264	1.01	381	429	0.89	
<i>yvcP</i>	3,566,452	3,567,165	-	253	264	0.96	319	373	0.85	
<i>yvcN</i>	3,567,557	3,568,321	-	1100	960	1.15	1074	1025	1.05	
<i>crh</i>	3,568,322	3,568,579	-	1340	1154	1.16	1348	1437	0.94	
<i>yvcL</i>	3,568,603	3,569,553	-	1155	1003	1.15	1250	1246	1.00	
<i>yvcK</i>	3,569,576	3,570,529	-	1144	924	1.24	1150	1074	1.07	
<i>yvcJ</i>	3,570,531	3,571,418	-	1206	968	1.25	1016	990	1.03	
<i>yvcI</i>	3,571,443	3,571,919	-	946	765	1.24	1016	1001	1.02	
<i>trxB</i>	3,572,237	3,573,187	-	812	687	1.18	1380	1361	1.01	
<i>yvcE</i>	3,573,393	3,574,814	-	1371	876	1.56	3183	3586	0.89	
<i>yvcD</i>	3,575,195	3,576,649	-	298	240	1.24	545	488	1.12	
<i>yvcC</i>	3,576,775	3,578,544	-	407	340	1.20	489	430	1.14	
<i>yvcA</i>	3,578,709	3,579,068	-	352	209	1.68	621	484	1.28	
<i>yvcB</i>	3,579,083	3,580,993	-	635	408	1.56	624	489	1.28	
<i>yveA</i>	3,580,995	3,581,720	-	338	371	0.91	310	256	1.21	
<i>hisI</i>	3,581,966	3,582,595	-	2514	2926	0.86	1809	1903	0.95	
<i>hisF</i>	3,582,592	3,583,350	-	2885	3108	0.93	1657	1824	0.91	
<i>hisA</i>	3,583,347	3,584,084	-	2636	2833	0.93	1695	1784	0.95	
<i>hisH</i>	3,584,081	3,584,719	-	3363	3674	0.92	2246	2436	0.92	
<i>hisB</i>	3,584,720	3,585,304	-	2903	3264	0.89	2247	2300	0.98	
<i>hisD</i>	3,585,301	3,586,584	-	1942	1872	1.04	1212	1266	0.96	
<i>hisG</i>	3,586,581	3,587,222	-	1870	1742	1.07	1416	1401	1.01	
<i>hisZ</i>	3,587,215	3,588,390	-	1196	889	1.34	965	1014	0.95	
<i>yvpB</i>	3,588,641	3,589,393	+	233	266	0.87	166	219	0.76	
<i>yvpA</i>	3,589,633	3,590,298	+	162	184	0.88	159	195	0.82	
<i>yvoF</i>	3,590,318	3,590,836	-	679	585	1.16	811	875	0.93	
<i>hprP</i>	3,590,840	3,591,490	-	1018	820	1.24	1172	1159	1.01	
<i>yvoD</i>	3,591,487	3,592,425	-	1003	822	1.22	1155	1139	1.01	
<i>lgt</i>	3,592,449	3,593,258	-	654	547	1.19	739	742	1.00	
<i>hprK</i>	3,593,272	3,594,204	-	721	668	1.08	750	842	0.89	
<i>nagA</i>	3,594,386	3,595,576	+	463	466	0.99	392	388	1.01	
<i>nagB</i>	3,595,573	3,596,301	+	763	679	1.12	552	515	1.07	
<i>yvoA</i>	3,596,319	3,597,050	+	590	540	1.09	402	375	1.07	

<i>yvnB</i>	3,597,070	3,600,939	-	137	126	1.09	141	146	0.96	
<i>yvnA</i>	3,601,104	3,601,577	+	294	252	1.17	261	312	0.83	AbrB regulon
<i>cypX</i>	3,601,618	3,602,835	-	255	228	1.12	243	244	1.00	AbrB regulon
<i>yvmC</i>	3,602,851	3,603,597	-	361	318	1.14	408	386	1.06	AbrB regulon
<i>yvmB</i>	3,604,023	3,604,532	+	111	104	1.07	137	133	1.03	
<i>yvmA</i>	3,604,553	3,605,764	+	120	115	1.05	136	124	1.10	
<i>yvID</i>	3,605,792	3,606,151	-	1181	877	1.35	1276	1089	1.17	
<i>yvIC</i>	3,606,153	3,606,350	-	3280	2582	1.27	2947	2544	1.16	
<i>yvIB</i>	3,606,355	3,607,452	-	1879	1582	1.19	2540	2394	1.06	
<i>yvIA</i>	3,607,477	3,607,803	-	682	558	1.22	1272	1299	0.98	
<i>yvKN</i>	3,608,021	3,608,251	+	67	74	0.90	87	80	1.09	
<i>yvzB</i>	3,608,450	3,608,932	-	2074	2169	0.96	1406	1355	1.04	
<i>uvrA</i>	3,609,094	3,611,967	-	1762	1452	1.21	1488	1096	1.36	
<i>uvrB</i>	3,611,975	3,613,960	-	1253	1066	1.18	902	702	1.28	
<i>csbA</i>	3,614,146	3,614,376	-	319	297	1.07	332	293	1.13	
<i>yvkC</i>	3,614,823	3,617,318	+	118	104	1.13	196	162	1.21	
<i>yvkB</i>	3,617,394	3,617,963	+	134	131	1.02	250	205	1.22	
<i>yvkA</i>	3,617,994	3,619,328	+	95	90	1.06	136	116	1.17	
<i>yvjD</i>	3,619,376	3,620,569	-	835	845	0.99	598	663	0.90	
<i>yvzD</i>	3,620,648	3,620,986	-	854	1203	0.71	782	906	0.86	
<i>yvjB</i>	3,621,386	3,622,828	-	73	82	0.89	72	91	0.79	
<i>ftsX</i>	3,622,968	3,623,858	-	310	260	1.19	574	598	0.96	
<i>ftsE</i>	3,623,851	3,624,537	-	1142	898	1.27	1345	1449	0.93	Spo0A regulon
<i>cccB</i>	3,624,771	3,625,109	-	1022	818	1.25	1059	995	1.06	
<i>yvjA</i>	3,625,158	3,626,003	-	212	172	1.24	165	140	1.17	
<i>prfB</i>	3,626,169	3,627,270	-	1633	1528	1.07	1846	1829	1.01	
<i>secA</i>	3,627,340	3,629,865	-	2457	2322	1.06	2062	2109	0.98	
<i>yvyD</i>	3,630,033	3,630,602	-	6016	6920	0.87	4101	3652	1.12	Spo0A regulon
<i>fliT</i>	3,631,180	3,631,521	-	4707	4528	1.04	3693	3677	1.00	
<i>flIS</i>	3,631,518	3,631,919	-	4480	4379	1.02	3613	3338	1.08	
<i>flID</i>	3,631,941	3,633,437	-	4301	4412	0.97	3289	3239	1.02	
<i>yvyC</i>	3,633,455	3,633,784	-	1471	1655	0.89	1101	1191	0.92	SigD regulon
<i>hag</i>	3,634,017	3,634,931	-	10338	11309	0.91	8218	7537	1.09	SigD regulon
<i>csrA</i>	3,635,076	3,635,300	-	755	784	0.96	744	890	0.84	
<i>yviF</i>	3,635,294	3,635,725	-	461	467	0.99	319	424	0.75	
<i>yviE</i>	3,635,746	3,636,321	-	1154	1187	0.97	781	1003	0.78	
<i>flgL</i>	3,636,368	3,637,264	-	3942	3957	1.00	2362	2749	0.86	
<i>flgK</i>	3,637,275	3,638,798	-	3480	3712	0.94	2024	2370	0.85	
<i>yvyG</i>	3,638,817	3,639,299	-	4460	5317	0.84	2501	3039	0.82	
<i>flgM</i>	3,639,315	3,639,581	-	4326	5469	0.79	2262	2784	0.81	
<i>yvyF</i>	3,639,662	3,640,081	-	1930	2997	0.64	1537	2178	0.71	SigD regulon
<i>comFC</i>	3,640,155	3,640,844	-	681	887	0.77	723	1087	0.67	
<i>comFB</i>	3,640,841	3,641,137	-	949	1212	0.78	927	1395	0.66	
<i>comFA</i>	3,641,197	3,642,588	-	904	1146	0.79	988	1432	0.69	
<i>yviA</i>	3,642,694	3,643,539	-	370	354	1.05	487	588	0.83	
<i>degU</i>	3,643,637	3,644,326	-	1308	1268	1.03	1615	1704	0.95	
<i>degS</i>	3,644,409	3,645,566	-	793	688	1.15	880	987	0.89	
<i>yvyE</i>	3,645,783	3,646,436	+	469	431	1.09	599	716	0.84	Spo0A regulon
<i>yvhJ</i>	3,646,436	3,647,611	+	504	434	1.16	895	1004	0.89	
<i>tagO</i>	3,647,684	3,648,760	-	852	750	1.14	627	793	0.79	
<i>tuaH</i>	3,648,905	3,650,098	-	82	69	1.19	102	90	1.13	
<i>tuaG</i>	3,650,127	3,650,885	-	113	103	1.10	127	126	1.01	
<i>tuaF</i>	3,650,909	3,651,589	-	120	107	1.12	150	134	1.13	
<i>tuaE</i>	3,651,618	3,653,084	-	83	80	1.04	99	89	1.11	
<i>tuaD</i>	3,653,169	3,654,554	-	128	107	1.20	136	133	1.02	
<i>tuaC</i>	3,654,616	3,655,785	-	116	107	1.08	97	98	0.99	
<i>tuaB</i>	3,655,782	3,657,233	-	71	69	1.02	69	75	0.92	
<i>tuaA</i>	3,657,383	3,657,922	-	54	56	0.96	45	53	0.86	
<i>lyrC</i>	3,658,149	3,659,639	-	2620	2431	1.08	1931	2243	0.86	
<i>lyrB</i>	3,659,678	3,661,795	-	2289	2127	1.08	1850	2420	0.76	
<i>lytA</i>	3,661,819	3,662,127	-	1981	2243	0.88	1864	2299	0.81	SigD regulon
<i>lytR</i>	3,662,311	3,663,231	+	2245	2207	1.02	1963	1902	1.03	
<i>yvyH</i>	3,663,271	3,664,413	-	334	316	1.06	316	323	0.98	
<i>gtaB</i>	3,664,659	3,665,537	+	4537	4633	0.98	2532	2219	1.14	
<i>ggaB</i>	3,666,239	3,668,941	-	91	96	0.95	434	446	0.97	
<i>ggaA</i>	3,669,065	3,670,405	-	40	37	1.09	111	149	0.75	
<i>tagH</i>	3,672,594	3,674,177	-	375	317	1.18	704	727	0.97	
<i>tagG</i>	3,674,197	3,675,024	-	390	367	1.06	636	655	0.97	
<i>tagF</i>	3,675,189	3,677,429	-	359	282	1.27	657	747	0.88	
<i>tagE</i>	3,677,429	3,679,450	-	485	418	1.16	669	780	0.86	
<i>tagD</i>	3,679,611	3,680,000	-	1037	1206	0.86	944	1321	0.71	
<i>tagA</i>	3,680,400	3,681,170	+	861	867	0.99	779	1039	0.75	
<i>tagB</i>	3,681,203	3,682,348	+	371	341	1.09	389	483	0.81	
<i>tagC</i>	3,682,468	3,683,796	+	257	106	2.42	394	175	2.25	
<i>lytD</i>	3,683,856	3,686,498	-	1722	1710	1.01	1452	1413	1.03	SigD regulon
<i>pmi</i>	3,686,627	3,687,577	-	699	708	0.99	675	752	0.90	
<i>gerBA</i>	3,687,842	3,689,290	+	51	54	0.95	47	50	0.94	
<i>gerBB</i>	3,689,296	3,690,402	+	45	48	0.94	50	54	0.92	
<i>gerBC</i>	3,690,399	3,691,523	+	69	66	1.05	67	72	0.93	
<i>ywtG</i>	3,691,560	3,692,933	-	2729	1892	1.44	963	349	2.76	
<i>ywtF</i>	3,693,266	3,694,234	+	697	619	1.13	568	534	1.06	
<i>ywtE</i>	3,694,390	3,695,250	+	625	529	1.18	736	721	1.02	
<i>ywtD</i>	3,695,284	3,696,525	-	4121	3358	1.23	3690	2910	1.27	
<i>ywtC</i>	3,696,666	3,696,833	-	49	43	1.14	60	51	1.17	
<i>ywtB</i>	3,696,848	3,697,990	-	79	77	1.03	74	86	0.86	
<i>ywtA</i>	3,698,009	3,698,458	-	48	41	1.19	42	43	0.97	
<i>ywsC</i>	3,698,473	3,699,654	-	51	49	1.03	46	48	0.96	
<i>rbsR</i>	3,700,438	3,701,418	+	206	206	1.00	244	296	0.83	AbrB regulon
<i>rbsK</i>	3,701,420	3,702,301	+	190	219	0.87	256	329	0.78	AbrB regulon
<i>rbsD</i>	3,702,298	3,702,693	+	71	99	0.72	126	153	0.83	AbrB regulon
<i>rbsA</i>	3,702,709	3,704,190	+	120	161	0.75	163	221	0.74	AbrB regulon

<i>rbsC</i>	3,704,192	3,705,160	+	90	124	0.73	91	131	0.70	AbrB regulon
<i>rbsB</i>	3,705,172	3,706,089	+	216	279	0.77	208	290	0.72	AbrB regulon
<i>ywsA</i>	3,706,171	3,706,707	+	5563	5681	0.98	3027	1825	1.66	
<i>ywsA</i>	3,706,863	3,707,159	+	159	261	0.61	68	51	1.35	
<i>ywrO</i>	3,707,199	3,707,726	-	783	524	1.49	1284	1094	1.17	
<i>alsD</i>	3,707,826	3,708,593	-	173	149	1.16	175	135	1.30	
<i>alsS</i>	3,708,655	3,710,370	-	166	120	1.38	151	129	1.17	
<i>alsR</i>	3,710,525	3,711,433	+	264	299	0.88	280	330	0.85	
<i>ywrK</i>	3,711,644	3,712,972	+	30	36	0.83	36	40	0.90	
<i>ywrJ</i>	3,713,029	3,713,706	-	32	40	0.78	38	39	0.97	
<i>cotB</i>	3,713,766	3,714,908	-	45	46	0.97	55	48	1.13	
<i>cotH</i>	3,715,036	3,716,124	-	35	41	0.87	37	40	0.92	
<i>cotG</i>	3,716,265	3,716,852	+	38	115	0.33	36	47	0.76	
<i>ywrF</i>	3,717,026	3,717,643	+	490	508	0.96	428	363	1.18	
<i>ywrE</i>	3,717,821	3,718,156	+	308	262	1.17	452	478	0.95	
<i>ywrD</i>	3,718,161	3,719,738	-	78	83	0.94	64	73	0.88	
<i>ywrC</i>	3,719,952	3,720,428	+	232	266	0.87	154	181	0.85	
<i>ywrB</i>	3,720,442	3,721,035	+	143	157	0.91	118	121	0.98	
<i>ywrA</i>	3,721,032	3,721,568	+	108	111	0.98	100	114	0.88	
<i>ywqO</i>	3,721,595	3,721,816	-	41	44	0.95	57	47	1.19	
<i>ywqN</i>	3,721,813	3,722,358	-	68	58	1.18	84	79	1.07	
<i>ywqM</i>	3,722,481	3,723,362	+	107	123	0.86	91	119	0.76	
<i>ywqL</i>	3,723,447	3,724,163	-	504	330	1.53	548	491	1.12	
<i>ywqK</i>	3,724,173	3,724,637	-	710	413	1.72	672	629	1.07	
<i>ywqJ</i>	3,724,627	3,726,435	-	726	475	1.53	644	519	1.24	
<i>ywqI</i>	3,726,454	3,726,714	-	1060	802	1.32	990	728	1.36	
<i>ywqH</i>	3,726,724	3,727,146	-	859	647	1.33	711	569	1.25	
<i>ywqG</i>	3,727,538	3,728,323	-	440	350	1.26	725	691	1.05	
<i>ywqF</i>	3,728,515	3,729,837	-	196	154	1.27	324	293	1.11	
<i>ywqE</i>	3,730,032	3,730,796	-	113	97	1.17	160	147	1.09	AbrB regulon
<i>ywqD</i>	3,730,849	3,731,562	-	336	270	1.24	497	526	0.94	AbrB regulon
<i>ywqC</i>	3,731,552	3,732,298	-	215	226	0.95	377	427	0.88	Spo0A and AbrB regulon
<i>ywqB</i>	3,732,879	3,734,489	+	209	181	1.16	212	263	0.81	
<i>ywqA</i>	3,734,476	3,737,244	+	383	282	1.36	484	460	1.05	
<i>ywpJ</i>	3,737,370	3,738,227	-	252	278	0.91	505	663	0.76	
<i>glcR</i>	3,738,233	3,739,009	-	215	248	0.87	361	519	0.69	
<i>ywpH</i>	3,739,233	3,739,574	-	3282	3802	0.86	3532	4102	0.86	
<i>ywpG</i>	3,739,651	3,740,034	-	49	57	0.86	129	127	1.02	
<i>ywpF</i>	3,740,209	3,740,619	+	1842	1690	1.09	1285	1364	0.94	
<i>ywpE</i>	3,740,758	3,741,066	-	38	36	1.05	54	51	1.07	
<i>ywpD</i>	3,741,410	3,742,246	+	45	46	0.99	48	51	0.94	
<i>mscL</i>	3,742,293	3,742,685	-	564	541	1.04	660	743	0.89	
<i>ywpB</i>	3,742,784	3,743,182	-	224	243	0.92	291	349	0.83	
<i>rapD</i>	3,743,374	3,744,438	+	384	303	1.27	510	490	1.04	
<i>flhP</i>	3,744,461	3,745,267	-	1352	1878	0.72	1156	1548	0.75	
<i>flhO</i>	3,745,301	3,746,113	-	1339	2311	0.58	1147	1487	0.77	
<i>mbI</i>	3,746,276	3,747,277	-	982	921	1.07	1098	1595	0.69	
<i>spoIIB</i>	3,747,443	3,747,724	-	27	41	0.66	31	40	0.76	
<i>ywoH</i>	3,748,074	3,748,487	+	60	59	1.02	63	100	0.64	
<i>ywoG</i>	3,748,509	3,749,699	+	79	74	1.07	98	108	0.90	
<i>ywoF</i>	3,749,790	3,751,196	-	614	507	1.21	756	798	0.95	
<i>ywoE</i>	3,751,302	3,752,774	-	62	65	0.96	55	60	0.91	AbrB regulon
<i>ywoD</i>	3,752,955	3,754,313	-	169	149	1.13	184	170	1.09	
<i>ywoC</i>	3,754,313	3,754,882	-	295	276	1.07	376	386	0.98	
<i>ywoB</i>	3,755,066	3,755,530	-	234	235	1.00	325	341	0.95	
<i>nrgA</i>	3,755,812	3,757,026	+	312	321	0.97	168	158	1.07	
<i>nrgB</i>	3,757,038	3,757,388	+	852	861	0.99	1196	830	1.44	
<i>ywoA</i>	3,757,569	3,758,150	+	451	320	1.41	495	451	1.10	
<i>ywnJ</i>	3,758,191	3,758,613	-	81	66	1.22	96	74	1.31	
<i>spoIIQ</i>	3,758,724	3,759,575	-	72	105	0.69	70	82	0.85	
<i>ywnH</i>	3,759,716	3,760,207	+	468	477	0.98	489	620	0.79	
<i>ywnG</i>	3,760,204	3,760,722	+	370	341	1.08	430	477	0.90	
<i>ywnF</i>	3,761,009	3,761,443	-	554	432	1.28	216	203	1.06	
<i>ywnE</i>	3,761,686	3,763,134	+	212	175	1.21	255	250	1.02	
<i>mta</i>	3,763,155	3,763,928	-	149	138	1.08	144	127	1.13	
<i>ywnC</i>	3,764,073	3,764,456	+	88	81	1.09	140	142	0.99	
<i>ywnB</i>	3,764,491	3,765,132	-	192	221	0.87	252	303	0.83	
<i>ywnA</i>	3,765,200	3,765,601	-	324	332	0.97	376	435	0.86	
<i>ureC</i>	3,765,736	3,767,445	-	570	480	1.19	492	386	1.27	
<i>ureB</i>	3,767,442	3,767,816	-	694	563	1.23	660	510	1.29	
<i>ureA</i>	3,767,813	3,768,130	-	603	538	1.12	506	376	1.35	
<i>csbD</i>	3,769,127	3,769,315	-	752	802	0.94	1038	587	1.77	
<i>ywmF</i>	3,769,388	3,769,867	-	121	85	1.42	71	46	1.56	
<i>rapB</i>	3,770,023	3,771,156	-	675	644	1.05	621	610	1.02	
<i>moaA</i>	3,771,348	3,772,373	-	903	673	1.34	1163	859	1.35	
<i>fdhD</i>	3,772,389	3,773,177	-	671	439	1.53	704	540	1.30	
<i>ywmD</i>	3,773,678	3,774,352	-	312	239	1.31	306	290	1.06	
<i>ywmC</i>	3,774,676	3,775,359	-	197	173	1.14	140	153	0.91	
<i>spoIIB</i>	3,775,745	3,776,776	-	190	194	0.98	133	136	0.98	Spo0A regulon
<i>murAA</i>	3,776,972	3,778,282	-	2149	1780	1.21	1888	2052	0.92	
<i>ywmB</i>	3,778,316	3,779,056	-	1689	1257	1.34	1319	1406	0.94	
<i>ywzB</i>	3,779,185	3,779,415	-	1498	1131	1.32	1110	1050	1.06	
<i>ywmA</i>	3,779,585	3,780,058	+	79	94	0.85	59	61	0.97	
<i>atpC</i>	3,780,092	3,780,490	-	4800	4766	1.01	3214	3188	1.01	
<i>atpD</i>	3,780,514	3,781,935	-	3249	3927	0.83	3226	3478	0.93	
<i>atpG</i>	3,781,961	3,782,824	-	3432	4132	0.83	4093	4309	0.95	
<i>atpA</i>	3,782,901	3,784,409	-	3018	3229	0.93	3345	3658	0.91	
<i>atpH</i>	3,784,426	3,784,971	-	3179	3403	0.93	3691	3910	0.94	
<i>atpF</i>	3,784,968	3,785,480	-	4081	4421	0.92	4377	4743	0.92	
<i>atpE</i>	3,785,643	3,785,855	-	2255	2411	0.94	3065	3505	0.87	
<i>atpB</i>	3,785,901	3,786,635	-	2634	2877	0.92	2819	3180	0.89	

<i>atpI</i>	3,786,643	3,787,026	-	1416	1481	0.96	1251	1642	0.76	
<i>upp</i>	3,787,449	3,788,078	-	719	752	0.96	1304	1520	0.86	
<i>glyA</i>	3,788,213	3,789,460	-	2740	3010	0.91	2545	2891	0.88	
<i>ywlG</i>	3,789,667	3,790,209	-	695	679	1.02	647	611	1.06	
<i>ywlF</i>	3,790,222	3,790,671	-	1009	984	1.03	913	932	0.98	
<i>ywlE</i>	3,790,828	3,791,280	-	493	491	1.00	372	392	0.95	
<i>ywlD</i>	3,791,356	3,791,913	-	71	64	1.11	64	68	0.94	
<i>ywlC</i>	3,791,992	3,793,032	-	314	306	1.02	316	295	1.07	
<i>ywlB</i>	3,793,189	3,793,632	-	583	349	1.67	231	137	1.68	
<i>spoIIR</i>	3,793,699	3,794,373	-	591	353	1.68	249	130	1.91	
<i>ywlA</i>	3,794,514	3,794,876	+	143	135	1.06	178	179	0.99	
<i>ywkF</i>	3,794,893	3,795,180	-	214	169	1.27	256	251	1.02	
<i>ywkE</i>	3,795,240	3,796,106	-	338	246	1.37	436	418	1.04	
<i>prfA</i>	3,796,108	3,797,178	-	1284	1159	1.11	1436	1368	1.05	
<i>ywkD</i>	3,797,304	3,797,690	+	224	190	1.18	263	198	1.33	
<i>ywkC</i>	3,797,812	3,798,366	+	433	429	1.01	544	480	1.13	Spo0A regulon
<i>ywkB</i>	3,798,400	3,799,359	-	84	66	1.27	56	44	1.26	
<i>ywkA</i>	3,799,441	3,801,189	-	101	79	1.27	106	73	1.46	
<i>tdk</i>	3,801,428	3,802,015	-	194	237	0.82	202	277	0.73	
<i>rpmE</i>	3,802,104	3,802,304	-	1546	2104	0.74	3368	3812	0.88	
<i>rho</i>	3,802,423	3,803,706	-	1628	1357	1.20	1655	1657	1.00	
<i>ywjI</i>	3,804,113	3,805,078	-	1103	1371	0.80	1548	2290	0.68	
<i>murAB</i>	3,805,109	3,806,398	-	1237	1425	0.87	1640	2361	0.69	
<i>ywjH</i>	3,806,777	3,807,415	-	2923	3799	0.77	3299	4104	0.80	
<i>fbxA</i>	3,807,535	3,808,392	-	3303	4012	0.82	3543	4124	0.86	
<i>spo0F</i>	3,808,573	3,808,947	-	742	740	1.00	604	811	0.75	Spo0A regulon
<i>ywjG</i>	3,809,113	3,809,634	+	242	239	1.01	268	268	1.00	
<i>pyrG</i>	3,809,716	3,811,323	-	493	499	0.99	918	997	0.92	
<i>rpoE</i>	3,811,565	3,812,086	-	958	1014	0.94	1013	1331	0.76	
<i>acdA</i>	3,812,269	3,813,408	-	148	129	1.15	153	148	1.04	
<i>ywjF</i>	3,813,405	3,815,522	-	145	130	1.12	149	158	0.94	
<i>ywjE</i>	3,815,677	3,816,873	+	57	60	0.94	43	53	0.81	
<i>ywjD</i>	3,816,886	3,817,848	+	50	49	1.02	38	44	0.86	
<i>ywjC</i>	3,817,929	3,818,201	+	1697	2317	0.73	2127	1166	1.82	
<i>ywjB</i>	3,818,243	3,818,767	-	1583	1476	1.07	946	978	0.97	
<i>ywjA</i>	3,818,777	3,820,504	-	1865	1804	1.03	946	998	0.95	
<i>ywiE</i>	3,820,593	3,822,095	-	1348	1632	0.83	988	778	1.27	
<i>narI</i>	3,822,581	3,823,252	-	59	62	0.96	56	63	0.89	
<i>narJ</i>	3,823,249	3,823,803	-	112	114	0.99	91	107	0.85	
<i>narH</i>	3,823,829	3,825,292	-	125	118	1.05	85	112	0.76	
<i>narG</i>	3,825,282	3,828,968	-	97	94	1.03	71	88	0.81	
<i>arfM</i>	3,829,164	3,829,640	-	82	85	0.96	67	85	0.79	
<i>ywiC</i>	3,829,784	3,830,503	+	48	53	0.90	53	62	0.85	
<i>fnr</i>	3,830,535	3,831,251	-	587	499	1.18	177	158	1.12	
<i>narK</i>	3,831,350	3,832,537	-	92	93	0.99	75	89	0.85	
<i>argS</i>	3,832,673	3,834,343	-	918	849	1.08	927	1082	0.86	
<i>ywiB</i>	3,834,340	3,834,768	-	509	518	0.98	561	734	0.76	
<i>albA</i>	3,835,346	3,836,692	+	3725	2918	1.28	2366	1962	1.21	AbrB regulon
<i>albB</i>	3,836,705	3,836,866	+	3153	2377	1.33	1724	1474	1.17	AbrB regulon
<i>albC</i>	3,836,863	3,837,582	+	2003	1173	1.71	1017	911	1.12	AbrB regulon
<i>albD</i>	3,837,575	3,838,885	+	1512	869	1.74	710	670	1.06	AbrB regulon
<i>albE</i>	3,838,875	3,840,035	+	1139	656	1.74	498	476	1.05	AbrB regulon
<i>albF</i>	3,840,040	3,841,320	+	900	587	1.53	372	372	1.00	AbrB regulon
<i>albG</i>	3,841,317	3,842,018	+	417	282	1.48	149	155	0.96	AbrB regulon
<i>ywhL</i>	3,842,024	3,843,400	-	60	60	1.00	58	62	0.95	
<i>ywhK</i>	3,843,439	3,844,794	-	44	47	0.94	44	47	0.94	
<i>rapF</i>	3,845,024	3,846,169	+	2507	2361	1.06	2765	2821	0.98	
<i>ywhH</i>	3,846,371	3,846,844	+	272	200	1.36	396	360	1.10	
<i>speB</i>	3,846,876	3,847,748	-	234	247	0.95	480	473	1.01	
<i>speE</i>	3,847,809	3,848,639	-	406	531	0.77	614	762	0.81	
<i>ywhE</i>	3,848,841	3,850,784	+	83	83	0.99	64	82	0.78	
<i>ywhD</i>	3,851,208	3,851,726	-	776	663	1.17	1092	1081	1.01	
<i>ywhC</i>	3,851,740	3,852,399	-	528	475	1.11	594	648	0.92	
<i>ywhB</i>	3,852,508	3,852,696	+	287	297	0.97	431	438	0.98	
<i>ywhA</i>	3,852,739	3,853,158	-	308	302	1.02	330	338	0.98	
<i>thrZ</i>	3,853,278	3,855,194	-	142	141	1.01	150	155	0.97	
<i>mmr</i>	3,856,039	3,857,439	-	172	168	1.03	183	206	0.89	
<i>ywgB</i>	3,857,439	3,857,909	-	88	93	0.94	111	128	0.87	
<i>ywgA</i>	3,858,021	3,858,521	-	306	269	1.14	476	538	0.88	
<i>ywfO</i>	3,858,557	3,859,858	-	552	534	1.03	773	853	0.91	
<i>ywzC</i>	3,860,020	3,860,244	-	281	335	0.84	171	239	0.72	
<i>rsfA</i>	3,860,459	3,861,235	+	90	103	0.88	64	79	0.82	
<i>ywfM</i>	3,861,379	3,862,269	-	96	85	1.13	91	87	1.05	
<i>ywfL</i>	3,862,437	3,863,282	-	165	172	0.96	218	263	0.83	
<i>ywfK</i>	3,863,331	3,864,230	-	159	167	0.95	169	182	0.93	
<i>pta</i>	3,864,377	3,865,348	-	1083	959	1.13	1581	1399	1.13	
<i>ywfI</i>	3,865,618	3,866,382	+	1014	797	1.27	698	643	1.09	
<i>ywfH</i>	3,866,515	3,867,294	+	1029	933	1.10	947	1041	0.91	
<i>ywfG</i>	3,867,309	3,868,508	-	268	266	1.01	382	409	0.94	
<i>ywfF</i>	3,868,509	3,869,693	-	407	382	1.06	676	692	0.98	
<i>ywfE</i>	3,869,690	3,871,108	-	594	548	1.08	931	953	0.98	
<i>ywfD</i>	3,871,127	3,871,894	-	549	489	1.12	743	794	0.93	
<i>ywfC</i>	3,871,891	3,872,598	-	429	432	0.99	630	708	0.89	
<i>ywfB</i>	3,872,588	3,873,202	-	251	268	0.94	240	291	0.82	
<i>ywfA</i>	3,873,354	3,874,592	-	126	114	1.10	92	99	0.93	
<i>rocC</i>	3,874,802	3,876,214	-	236	234	1.01	203	195	1.05	
<i>rocB</i>	3,876,214	3,877,914	-	213	330	0.65	180	190	0.95	
<i>rocA</i>	3,877,988	3,879,535	-	448	939	0.48	305	434	0.70	AbrB regulon
<i>rocG</i>	3,879,762	3,881,036	-	310	418	0.74	281	351	0.80	Spo0A and AbrB regulon
<i>yweA</i>	3,881,213	3,881,677	-	2653	3230	0.82	2078	2278	0.91	AbrB regulon
<i>spsL</i>	3,882,001	3,882,456	-	96	78	1.23	121	112	1.08	

<i>spsK</i>	3,882,449	3,883,300	-	174	142	1.22	186	175	1.06	
<i>spsJ</i>	3,883,314	3,884,261	-	113	99	1.14	141	123	1.14	
<i>spsI</i>	3,884,261	3,885,001	-	120	114	1.05	121	126	0.96	
<i>spsG</i>	3,885,026	3,886,045	-	102	98	1.04	99	101	0.98	
<i>spsF</i>	3,886,052	3,886,771	-	72	69	1.03	72	69	1.04	
<i>spsE</i>	3,886,764	3,887,885	-	109	109	1.00	97	96	1.01	
<i>spsD</i>	3,887,885	3,888,754	-	67	63	1.07	66	70	0.94	
<i>spsC</i>	3,888,755	3,889,924	-	105	108	0.97	87	109	0.80	
<i>spsB</i>	3,889,945	3,891,363	-	44	48	0.94	40	43	0.94	
<i>spsA</i>	3,891,368	3,892,138	-	46	55	0.84	36	44	0.82	
<i>ywdL</i>	3,892,458	3,893,003	+	53	62	0.86	37	44	0.84	
<i>ywdK</i>	3,893,076	3,893,417	-	710	590	1.20	568	520	1.09	
<i>ywdJ</i>	3,893,418	3,894,800	-	414	371	1.12	680	698	0.97	
<i>ywdI</i>	3,894,820	3,895,137	-	629	551	1.14	566	608	0.93	
<i>ywdH</i>	3,895,305	3,896,678	+	137	137	1.00	160	154	1.04	
<i>ung</i>	3,896,703	3,897,380	-	392	282	1.39	462	400	1.15	
<i>ywdF</i>	3,897,394	3,898,200	-	358	280	1.28	573	516	1.11	
<i>ywdE</i>	3,898,291	3,898,824	-	75	77	0.97	102	125	0.82	
<i>ywdD</i>	3,898,872	3,899,363	-	65	68	0.96	109	166	0.66	
<i>ywdC</i>	3,899,406	3,899,834	+	29	34	0.84	31	34	0.93	
<i>thiD</i>	3,899,983	3,900,798	+	509	547	0.93	742	865	0.86	
<i>ywdA</i>	3,900,888	3,901,136	-	346	444	0.78	198	215	0.92	
<i>sacA</i>	3,901,230	3,902,672	-	318	399	0.80	292	395	0.74	
<i>sacP</i>	3,902,669	3,904,054	-	142	176	0.80	134	182	0.74	
<i>ywcJ</i>	3,904,356	3,905,126	+	1009	831	1.21	192	167	1.15	
<i>sacT</i>	3,905,165	3,905,995	-	102	135	0.76	118	142	0.83	
<i>ywcI</i>	3,906,035	3,906,337	-	83	99	0.83	81	135	0.60	
<i>vpr</i>	3,906,867	3,909,287	+	456	416	1.10	698	598	1.17	
<i>ywcH</i>	3,909,325	3,910,326	-	187	172	1.09	176	156	1.12	Spo0A regulon
<i>nfrA</i>	3,910,500	3,911,249	-	1010	995	1.01	989	818	1.21	Spo0A and SigD regulon
<i>rodA</i>	3,911,355	3,912,536	-	113	137	0.83	168	201	0.83	
<i>ywcE</i>	3,913,032	3,913,295	+	68	81	0.83	145	253	0.57	
<i>qoxD</i>	3,913,338	3,913,712	-	479	587	0.82	1154	999	1.16	
<i>qoxC</i>	3,913,714	3,914,328	-	4662	4618	1.01	3688	3412	1.08	
<i>qoxB</i>	3,914,342	3,916,291	-	4303	4292	1.00	3454	3160	1.09	
<i>qoxA</i>	3,916,319	3,917,284	-	3775	3832	0.99	2744	2836	0.97	
<i>ywcA</i>	3,917,895	3,918,044	+	2439	2195	1.11	1413	721	1.96	
<i>galT</i>	3,918,116	3,919,657	-	1132	882	1.28	666	588	1.13	
<i>galK</i>	3,919,661	3,920,833	-	903	738	1.22	607	459	1.32	
<i>ywcD</i>	3,920,914	3,921,297	-	188	184	1.02	200	230	0.87	
<i>ywcC</i>	3,921,315	3,921,986	-	143	156	0.92	125	144	0.87	
<i>slrA</i>	3,922,342	3,922,500	+	520	415	1.25	499	431	1.16	
<i>ywcB</i>	3,922,943	3,923,251	+	116	99	1.17	130	117	1.11	
<i>ywcA</i>	3,923,238	3,924,788	+	82	79	1.03	71	78	0.91	
<i>ywbO</i>	3,924,819	3,925,421	-	154	147	1.05	141	193	0.73	
<i>ywbN</i>	3,925,705	3,926,955	-	724	762	0.95	607	748	0.81	
<i>ywbM</i>	3,926,974	3,928,131	-	714	802	0.89	599	865	0.69	
<i>ywbL</i>	3,928,128	3,929,573	-	302	369	0.82	236	351	0.67	
<i>thiE</i>	3,929,730	3,930,398	-	636	521	1.22	565	525	1.08	
<i>thiM</i>	3,930,395	3,931,213	-	717	564	1.27	654	577	1.13	
<i>ywbI</i>	3,931,221	3,932,126	-	378	280	1.35	334	308	1.08	
<i>ywbH</i>	3,932,232	3,932,618	+	164	116	1.42	186	281	0.66	
<i>ywbG</i>	3,932,600	3,933,325	+	168	130	1.29	122	183	0.66	
<i>ywbF</i>	3,933,380	3,934,579	+	294	287	1.02	391	396	0.99	AbrB regulon
<i>ywbE</i>	3,934,613	3,934,810	+	365	348	1.05	620	654	0.95	
<i>ywbD</i>	3,934,845	3,936,035	-	390	337	1.16	379	380	1.00	
<i>ywbC</i>	3,936,156	3,936,536	+	518	448	1.16	673	666	1.01	
<i>ywbB</i>	3,936,574	3,937,251	-	94	74	1.26	87	90	0.98	
<i>ywbA</i>	3,937,328	3,938,662	-	102	104	0.98	85	107	0.79	
<i>epr</i>	3,938,890	3,940,827	+	2588	2029	1.28	1983	1706	1.16	SigD regulon
<i>sacX</i>	3,941,255	3,942,634	+	108	100	1.08	168	176	0.96	
<i>sacY</i>	3,942,688	3,943,530	+	68	73	0.93	143	154	0.93	
<i>gspA</i>	3,943,581	3,944,441	-	6591	6291	1.05	3482	1801	1.93	
<i>ywaF</i>	3,944,551	3,945,264	-	62	62	1.00	50	57	0.88	
<i>ywaE</i>	3,945,415	3,945,930	+	207	227	0.91	219	248	0.88	
<i>tyrZ</i>	3,946,179	3,947,420	+	85	100	0.85	99	113	0.88	
<i>ywaD</i>	3,947,576	3,948,943	+	108	107	1.01	90	91	0.99	
<i>ywaC</i>	3,948,973	3,949,605	-	216	262	0.82	341	346	0.99	
<i>menA</i>	3,949,747	3,950,682	-	524	638	0.82	504	646	0.78	
<i>dltA</i>	3,951,296	3,952,807	+	1883	1592	1.18	2538	2331	1.09	Spo0A and SigD regulon
<i>dltB</i>	3,952,804	3,953,991	+	1776	1401	1.27	2768	2503	1.11	
<i>dltC</i>	3,954,008	3,954,244	+	2693	1951	1.38	3595	3190	1.13	
<i>dltD</i>	3,954,244	3,955,422	+	2223	1646	1.35	3091	2857	1.08	
<i>dltE</i>	3,955,513	3,956,271	+	1607	1256	1.28	2684	2438	1.10	
<i>ywaA</i>	3,956,412	3,957,503	+	1776	1808	0.98	1990	1976	1.01	
<i>licH</i>	3,957,537	3,958,865	-	118	175	0.67	104	189	0.55	
<i>licA</i>	3,958,862	3,959,194	-	137	222	0.62	113	212	0.54	
<i>licC</i>	3,959,213	3,960,571	-	118	164	0.72	95	149	0.64	
<i>licB</i>	3,960,587	3,960,895	-	70	112	0.63	96	120	0.80	
<i>licR</i>	3,961,023	3,962,948	-	229	236	0.97	201	269	0.75	
<i>yxJ</i>	3,963,298	3,963,888	-	632	374	1.69	360	205	1.75	
<i>katX</i>	3,964,017	3,965,660	+	1601	857	1.87	1243	511	2.43	
<i>yxIH</i>	3,965,765	3,966,967	+	99	93	1.07	110	112	0.98	
<i>yxIG</i>	3,966,960	3,967,739	-	345	315	1.09	408	341	1.20	
<i>yxIF</i>	3,967,736	3,968,623	-	456	394	1.16	490	436	1.13	
<i>yxIE</i>	3,968,630	3,968,818	-	391	355	1.10	447	321	1.39	
<i>yxID</i>	3,968,815	3,969,021	-	361	300	1.20	445	353	1.26	
<i>yxIC</i>	3,969,018	3,969,338	-	212	192	1.11	244	213	1.15	
<i>sigY</i>	3,969,331	3,969,867	-	173	162	1.07	228	228	1.00	
<i>yxIA</i>	3,970,079	3,971,452	+	180	140	1.28	309	325	0.95	
<i>yxkO</i>	3,971,467	3,972,297	-	583	383	1.52	378	276	1.37	

<i>cydD</i>	3,972,383	3,974,110	-	1738	1564	1.11	110	86	1.28	
<i>cydC</i>	3,974,107	3,975,810	-	2998	2640	1.14	171	102	1.68	
<i>cydB</i>	3,975,810	3,976,826	-	3676	3193	1.15	282	133	2.13	
<i>cydA</i>	3,976,810	3,978,216	-	2610	2184	1.20	512	392	1.31	
<i>yxkJ</i>	3,978,772	3,980,124	+	761	872	0.87	436	516	0.85	
<i>yxkI</i>	3,980,246	3,981,934	+	340	322	1.05	369	437	0.84	
<i>yxzE</i>	3,981,992	3,982,192	+	382	406	0.94	732	671	1.09	AbrB regulon
<i>yxkH</i>	3,982,206	3,983,045	-	368	434	0.85	377	358	1.05	
<i>msmX</i>	3,983,152	3,984,249	-	312	427	0.73	356	500	0.71	
<i>yxkF</i>	3,984,370	3,985,263	-	176	190	0.93	144	199	0.72	
<i>aldY</i>	3,985,447	3,986,904	+	913	738	1.24	322	200	1.61	
<i>yxkD</i>	3,986,946	3,987,782	-	119	131	0.91	139	179	0.78	
<i>yxkC</i>	3,988,251	3,988,892	+	4082	4454	0.92	4279	4278	1.00	SigD regulon
<i>galE</i>	3,988,967	3,989,986	-	1153	1182	0.98	1295	1444	0.90	
<i>yxkA</i>	3,990,101	3,990,607	-	72	61	1.17	72	58	1.24	
<i>yxjO</i>	3,990,737	3,991,612	+	114	125	0.92	105	138	0.76	
<i>yxjN</i>	3,991,690	3,992,163	+	158	210	0.75	177	253	0.70	
<i>yxjM</i>	3,992,181	3,993,401	+	105	110	0.95	115	136	0.85	
<i>yxjL</i>	3,993,388	3,994,044	+	134	140	0.95	152	190	0.80	
<i>pepT</i>	3,994,094	3,995,326	+	1065	1453	0.73	1210	1442	0.84	
<i>yxjJ</i>	3,995,848	3,996,111	+	3027	3154	0.96	2512	1644	1.53	
<i>yxjI</i>	3,996,240	3,996,728	+	431	377	1.14	494	461	1.07	
<i>yxjH</i>	3,996,983	3,998,005	+	850	885	0.96	1072	1249	0.86	
<i>yxjG</i>	3,998,368	3,999,504	+	1178	1469	0.80	1537	1907	0.81	
<i>yxjF</i>	3,999,557	4,000,330	-	72	70	1.03	62	67	0.92	
<i>scoB</i>	4,000,347	4,000,997	-	116	118	0.98	98	108	0.91	
<i>scoA</i>	4,000,994	4,001,710	-	67	72	0.92	68	71	0.95	
<i>yxjC</i>	4,001,734	4,003,152	-	78	75	1.05	55	66	0.84	
<i>yxjB</i>	4,003,306	4,004,154	-	137	119	1.15	152	161	0.95	
<i>yxjA</i>	4,004,770	4,005,963	+	61	86	0.71	210	233	0.90	
<i>yxjT</i>	4,006,434	4,006,676	-	564	277	2.04	548	274	2.00	
<i>yxjS</i>	4,006,821	4,007,111	-	1853	1248	1.48	1023	578	1.77	
<i>katE</i>	4,007,161	4,009,221	-	4019	2846	1.41	1617	832	1.94	
<i>citH</i>	4,009,422	4,010,702	+	52	54	0.95	41	45	0.90	
<i>bglS</i>	4,010,860	4,011,588	-	106	141	0.75	104	135	0.77	
<i>licT</i>	4,011,884	4,012,717	-	566	663	0.85	505	561	0.90	
<i>yxjP</i>	4,012,813	4,013,493	-	337	338	1.00	305	341	0.89	
<i>yxjO</i>	4,013,700	4,014,986	+	265	255	1.04	219	243	0.90	
<i>deaD</i>	4,015,005	4,016,444	-	751	846	0.89	670	837	0.80	
<i>yxjM</i>	4,016,526	4,017,674	-	711	852	0.83	604	777	0.78	
<i>yxjL</i>	4,017,857	4,018,057	-	481	503	0.96	345	439	0.79	
<i>yxjK</i>	4,018,166	4,018,627	-	897	1058	0.85	694	892	0.78	
<i>yxjI</i>	4,018,643	4,018,939	-	938	1107	0.85	827	1003	0.83	
<i>yxjI</i>	4,018,967	4,019,455	-	898	1083	0.83	884	993	0.89	
<i>yxzG</i>	4,019,473	4,019,925	-	1144	1331	0.86	1054	1219	0.87	
<i>yxjH</i>	4,019,995	4,020,324	-	806	895	0.90	605	746	0.81	
<i>yxjG</i>	4,020,447	4,020,863	-	1473	1678	0.88	1238	1431	0.86	
<i>yxzC</i>	4,020,914	4,021,282	-	1427	1687	0.85	1260	1614	0.78	
<i>yxjF</i>	4,021,276	4,021,746	-	1340	1575	0.85	1213	1496	0.81	
<i>yxzG</i>	4,022,072	4,022,500	-	3249	3355	0.97	2398	2850	0.84	
<i>wapA</i>	4,022,562	4,029,566	-	3616	4367	0.83	3831	4224	0.91	
<i>yxzF</i>	4,029,728	4,030,663	-	267	221	1.21	346	351	0.99	
<i>yxjE</i>	4,030,815	4,031,261	-	1463	1827	0.80	996	1189	0.84	
<i>bglH</i>	4,031,364	4,032,773	-	454	963	0.47	466	979	0.48	
<i>bglP</i>	4,032,796	4,034,625	-	365	682	0.53	338	639	0.53	
<i>yxzE</i>	4,035,008	4,035,316	-	102	60	1.70	150	126	1.19	
<i>yxzD</i>	4,035,362	4,035,805	-	226	133	1.70	299	217	1.38	
<i>yxjD</i>	4,035,802	4,037,511	-	349	205	1.70	368	283	1.30	
<i>yxjC</i>	4,037,531	4,037,800	-	418	330	1.27	337	211	1.60	
<i>yxjB</i>	4,037,812	4,038,177	-	434	457	0.95	331	234	1.42	
<i>yxjA</i>	4,038,484	4,039,893	-	120	111	1.08	144	141	1.02	
<i>hutP</i>	4,040,501	4,040,956	+	397	621	0.64	438	469	0.94	
<i>hutH</i>	4,041,069	4,042,595	+	76	83	0.91	56	68	0.82	
<i>hutU</i>	4,042,592	4,044,250	+	87	93	0.94	81	89	0.91	
<i>hutI</i>	4,044,263	4,045,528	+	115	120	0.96	108	109	0.99	
<i>hutG</i>	4,045,521	4,046,480	+	77	80	0.96	82	78	1.05	
<i>hutM</i>	4,046,556	4,047,983	+	108	89	1.21	90	82	1.10	
<i>pdp</i>	4,048,027	4,049,328	-	682	706	0.97	523	582	0.90	
<i>nupC</i>	4,049,358	4,050,539	-	739	692	1.07	543	556	0.98	
<i>dra</i>	4,050,655	4,051,290	-	1736	1405	1.24	1286	1047	1.23	
<i>deoR</i>	4,051,396	4,052,337	-	351	422	0.83	270	398	0.68	
<i>yxzB</i>	4,052,428	4,053,297	-	394	410	0.96	202	137	1.47	
<i>yxzR</i>	4,053,370	4,054,482	-	383	282	1.36	421	342	1.23	
<i>yxzQ</i>	4,054,552	4,055,889	-	378	260	1.46	422	298	1.42	
<i>yxzP</i>	4,055,886	4,057,028	-	683	418	1.64	690	487	1.42	
<i>yxzO</i>	4,057,045	4,057,794	-	539	298	1.81	678	482	1.41	
<i>yxzN</i>	4,057,807	4,058,481	-	609	308	1.98	677	475	1.42	
<i>yxzM</i>	4,058,504	4,059,298	-	659	297	2.22	898	641	1.40	
<i>yxzL</i>	4,059,323	4,059,820	-	428	247	1.73	635	474	1.34	
<i>yxzK</i>	4,059,834	4,061,159	-	286	180	1.59	444	382	1.16	
<i>yxzJ</i>	4,061,345	4,061,572	-	24	33	0.71	34	35	0.97	
<i>yxzI</i>	4,061,559	4,062,545	-	71	70	1.01	107	110	0.97	
<i>yxzH</i>	4,062,700	4,063,512	-	591	444	1.33	926	862	1.07	
<i>yxzG</i>	4,063,552	4,064,109	-	204	151	1.35	302	306	0.99	
<i>yxzF</i>	4,064,090	4,064,524	-	369	270	1.36	530	568	0.93	
<i>yxzE</i>	4,064,612	4,064,977	+	67	77	0.87	37	45	0.81	
<i>yxzD</i>	4,065,225	4,065,578	+	29	39	0.75	26	29	0.90	AbrB regulon
<i>yxzC</i>	4,065,622	4,066,020	-	540	581	0.93	646	718	0.90	
<i>yxzB</i>	4,066,198	4,067,157	+	944	1437	0.66	462	865	0.53	
<i>yxzA</i>	4,067,204	4,067,551	-	99	100	0.98	98	116	0.84	
<i>yxzM</i>	4,067,565	4,069,433	-	79	79	1.00	70	75	0.92	

<i>yxdL</i>	4,069,408	4,070,181	-	68	71	0.96	68	73	0.94	
<i>yxdK</i>	4,070,325	4,071,302	-	167	146	1.15	172	171	1.01	
<i>yxdJ</i>	4,071,299	4,071,988	-	201	180	1.12	197	196	1.00	
<i>fbxB</i>	4,072,097	4,072,969	-	149	181	0.82	182	214	0.85	
<i>ioll</i>	4,072,990	4,073,826	-	104	137	0.76	129	172	0.75	
<i>iollH</i>	4,073,912	4,074,781	-	90	121	0.74	101	144	0.70	
<i>idh</i>	4,074,801	4,075,835	-	129	158	0.82	155	234	0.67	
<i>iolF</i>	4,075,858	4,077,177	-	121	141	0.85	108	148	0.73	
<i>iolE</i>	4,077,192	4,078,085	-	107	140	0.76	108	155	0.70	
<i>iolD</i>	4,078,102	4,079,844	-	134	175	0.77	150	219	0.68	
<i>iolC</i>	4,080,048	4,081,025	-	104	145	0.72	125	175	0.71	
<i>iolB</i>	4,081,049	4,081,864	-	53	83	0.64	89	120	0.74	
<i>mmsA</i>	4,081,939	4,083,402	-	116	144	0.80	159	226	0.71	
<i>iolR</i>	4,083,818	4,084,573	+	225	262	0.86	325	368	0.88	
<i>iolS</i>	4,084,627	4,085,559	+	645	666	0.97	1221	1095	1.12	
<i>yxcE</i>	4,085,821	4,086,471	+	363	409	0.89	330	280	1.18	
<i>yxcD</i>	4,086,475	4,086,783	+	143	149	0.96	154	137	1.13	
<i>csbC</i>	4,087,022	4,088,407	+	5252	4913	1.07	1799	911	1.98	
<i>htpG</i>	4,088,449	4,090,329	-	888	846	1.05	1303	1228	1.06	
<i>yxcA</i>	4,090,497	4,090,748	-	226	201	1.13	285	296	0.96	
<i>yxbG</i>	4,090,865	4,091,686	+	1636	1435	1.14	680	347	1.96	
<i>yxbF</i>	4,091,715	4,092,857	-	120	114	1.06	129	143	0.91	
<i>aldX</i>	4,093,000	4,094,337	+	133	137	0.97	121	139	0.87	
<i>yxbD</i>	4,094,376	4,094,855	-	271	268	1.01	716	807	0.89	AbrB regulon
<i>yxbC</i>	4,094,935	4,095,927	-	1807	2140	0.84	1970	2156	0.91	Spo0A and AbrB regulon
<i>yxbB</i>	4,096,436	4,097,170	+	2055	2437	0.84	2289	2715	0.84	AbrB regulon
<i>yxbA</i>	4,097,170	4,097,439	+	1481	1801	0.82	1875	2153	0.87	AbrB regulon
<i>yxnB</i>	4,097,443	4,097,925	+	1257	1580	0.80	1606	2019	0.80	AbrB regulon
<i>asnH</i>	4,097,946	4,100,189	+	471	607	0.78	790	1134	0.70	
<i>yxaM</i>	4,100,186	4,101,385	+	364	532	0.68	599	893	0.67	
<i>yxaL</i>	4,101,449	4,102,681	-	1357	1021	1.33	965	853	1.13	AbrB regulon
<i>yxaJ</i>	4,102,782	4,103,210	-	438	336	1.30	642	571	1.12	AbrB regulon
<i>yxaI</i>	4,103,467	4,103,922	+	198	243	0.82	363	476	0.76	
<i>yxaH</i>	4,103,952	4,105,160	-	148	181	0.82	163	234	0.70	
<i>yxaG</i>	4,105,268	4,106,281	-	194	251	0.77	261	390	0.67	
<i>yxaF</i>	4,106,375	4,106,950	-	62	63	1.00	84	96	0.87	
<i>yxaA</i>	4,107,081	4,108,151	+	2137	1683	1.27	768	339	2.27	
<i>yxaD</i>	4,108,208	4,108,639	-	84	87	0.96	80	110	0.73	
<i>yxaC</i>	4,108,866	4,109,933	+	83	70	1.19	71	70	1.02	
<i>yxaB</i>	4,109,973	4,111,004	-	1142	732	1.56	784	362	2.17	AbrB regulon
<i>yxaA</i>	4,111,097	4,112,245	-	235	187	1.26	280	233	1.20	AbrB regulon
<i>gntR</i>	4,112,441	4,113,172	+	220	200	1.10	553	375	1.48	AbrB regulon
<i>gntK</i>	4,113,165	4,114,706	+	282	254	1.11	313	282	1.11	AbrB regulon
<i>gntP</i>	4,114,735	4,116,081	+	280	223	1.26	338	315	1.07	AbrB regulon
<i>gntZ</i>	4,116,104	4,117,510	+	453	326	1.39	775	683	1.13	AbrB regulon
<i>ahpC</i>	4,117,974	4,118,537	+	5697	4845	1.18	5545	4931	1.12	
<i>ahpF</i>	4,118,551	4,120,080	+	4890	4316	1.13	4409	3848	1.15	
<i>bglA</i>	4,120,190	4,121,629	-	121	120	1.01	136	153	0.88	
<i>yyzE</i>	4,121,643	4,121,873	-	138	132	1.05	139	171	0.81	
<i>yydK</i>	4,122,217	4,122,927	+	167	162	1.03	147	172	0.86	
<i>yydJ</i>	4,123,244	4,123,966	-	487	457	1.06	888	1144	0.78	AbrB regulon
<i>yydI</i>	4,123,987	4,124,616	-	975	919	1.06	1386	1776	0.78	AbrB regulon
<i>yydH</i>	4,124,766	4,125,524	-	489	458	1.07	1012	1390	0.73	AbrB regulon
<i>yydG</i>	4,125,505	4,126,464	-	291	263	1.11	1064	1471	0.72	AbrB regulon
<i>fbp</i>	4,127,053	4,129,068	+	371	342	1.08	670	695	0.96	
<i>yydD</i>	4,129,602	4,131,362	-	1359	958	1.42	1053	1004	1.05	
<i>yydC</i>	4,131,362	4,131,760	-	1126	762	1.48	746	636	1.17	
<i>yydB</i>	4,131,753	4,133,198	-	1074	890	1.21	879	799	1.10	
<i>yydA</i>	4,133,460	4,133,939	-	547	557	0.98	539	509	1.06	
<i>yycS</i>	4,134,376	4,134,789	+	144	120	1.20	118	119	0.99	
<i>yyeR</i>	4,134,823	4,136,049	-	490	367	1.34	351	306	1.15	
<i>yyeQ</i>	4,136,387	4,136,635	-	38	54	0.70	47	55	0.85	
<i>yyeP</i>	4,136,651	4,137,814	-	76	83	0.93	72	86	0.84	
<i>yyeO</i>	4,137,825	4,138,562	-	104	102	1.02	85	95	0.89	
<i>yyeN</i>	4,138,704	4,139,174	-	198	183	1.08	194	207	0.94	
<i>rapG</i>	4,139,285	4,140,382	+	596	638	0.93	763	883	0.86	
<i>rocF</i>	4,140,735	4,141,625	-	553	573	0.96	892	750	1.19	
<i>rocE</i>	4,141,699	4,143,102	-	426	485	0.88	661	557	1.19	
<i>rocD</i>	4,143,325	4,144,530	-	750	898	0.84	749	634	1.18	
<i>rocR</i>	4,144,771	4,146,156	+	172	166	1.03	237	277	0.86	Spo0A regulon
<i>yyxA</i>	4,146,591	4,147,793	-	513	383	1.34	926	753	1.23	
<i>yyeJ</i>	4,147,862	4,148,668	-	546	405	1.35	897	715	1.25	
<i>yyeI</i>	4,148,690	4,149,532	-	693	494	1.40	1239	1059	1.17	
<i>yyeH</i>	4,149,519	4,150,886	-	676	486	1.39	1102	931	1.18	
<i>yyeG</i>	4,150,876	4,152,711	-	678	515	1.32	873	748	1.17	
<i>yyeF</i>	4,152,719	4,153,426	-	700	609	1.15	818	678	1.21	
<i>pprA</i>	4,154,457	4,155,749	-	1780	1696	1.05	1285	1674	0.77	
<i>yyeE</i>	4,155,955	4,156,374	-	34	40	0.86	45	52	0.88	
<i>dnaC</i>	4,156,495	4,157,859	-	319	295	1.08	381	433	0.88	
<i>yyeD</i>	4,158,029	4,158,229	+	806	746	1.08	808	376	2.15	
<i>yyzB</i>	4,158,277	4,158,480	-	64	63	1.01	60	58	1.04	
<i>yyeB</i>	4,158,814	4,160,022	+	1608	1542	1.04	1553	1508	1.03	
<i>yyeA</i>	4,160,127	4,162,184	+	338	313	1.08	359	337	1.06	
<i>tpiI</i>	4,162,221	4,162,670	-	1149	1106	1.04	1328	1474	0.90	
<i>yybT</i>	4,162,667	4,164,646	-	996	721	1.38	965	1003	0.96	
<i>yybS</i>	4,164,683	4,165,612	-	599	411	1.46	516	552	0.93	
<i>coiF</i>	4,166,134	4,166,616	+	30	36	0.82	27	31	0.89	
<i>yybR</i>	4,166,646	4,167,023	-	122	90	1.35	126	141	0.89	
<i>ppaC</i>	4,167,228	4,168,157	+	1923	2143	0.90	2054	2422	0.85	
<i>yybP</i>	4,168,190	4,168,636	-	146	137	1.07	123	130	0.94	
<i>yybO</i>	4,169,069	4,170,376	+	761	389	1.96	294	132	2.23	

<i>yybN</i>	4,172,138	4,172,575	+	3420	3365	1.02	3150	3686	0.85
<i>yybM</i>	4,172,689	4,173,444	+	553	492	1.12	540	800	0.67
<i>yybL</i>	4,173,434	4,174,144	+	169	135	1.25	276	528	0.52
<i>yybK</i>	4,174,141	4,174,896	+	154	136	1.13	231	454	0.51
<i>yybJ</i>	4,174,893	4,175,549	+	404	352	1.15	548	840	0.65
<i>yybI</i>	4,175,924	4,176,712	-	142	161	0.89	136	138	0.99
<i>yybH</i>	4,176,780	4,177,169	-	168	186	0.90	158	184	0.86
<i>yybG</i>	4,177,315	4,178,154	+	236	228	1.04	244	251	0.97
<i>yybF</i>	4,178,187	4,179,401	-	95	90	1.06	143	166	0.86
<i>yybE</i>	4,179,630	4,180,466	+	74	80	0.92	76	98	0.78
<i>yybD</i>	4,180,480	4,180,923	+	112	120	0.93	117	140	0.84
<i>yybC</i>	4,181,006	4,181,485	+	67	63	1.06	80	92	0.87
<i>yybB</i>	4,181,660	4,182,322	-	336	266	1.26	248	232	1.07
<i>yybA</i>	4,182,469	4,182,921	-	206	195	1.06	212	240	0.88
<i>yyaT</i>	4,183,041	4,183,487	+	93	124	0.75	113	167	0.68
<i>yyaS</i>	4,183,484	4,184,089	+	36	49	0.74	53	74	0.72
<i>yyaR</i>	4,184,184	4,184,705	-	55	51	1.08	85	76	1.12
<i>yyaQ</i>	4,185,116	4,185,472	+	271	221	1.23	236	199	1.19
<i>yyaP</i>	4,185,632	4,186,198	+	118	109	1.09	139	134	1.04
<i>tetB</i>	4,186,705	4,188,081	-	1354	1461	0.93	930	978	0.95
<i>yyaO</i>	4,188,430	4,188,669	+	368	361	1.02	270	186	1.45
<i>yyaN</i>	4,188,820	4,189,236	+	35	38	0.90	39	46	0.85
<i>yyaM</i>	4,189,233	4,190,150	+	49	45	1.10	57	53	1.08
<i>yyaL</i>	4,190,222	4,192,291	+	615	481	1.28	522	455	1.15
<i>yyaK</i>	4,192,288	4,193,187	-	738	600	1.23	810	727	1.11
<i>yyaJ</i>	4,193,413	4,194,768	+	101	96	1.06	93	99	0.93
<i>maa</i>	4,194,802	4,195,356	-	225	219	1.03	228	236	0.97
<i>yyaH</i>	4,195,374	4,195,754	-	203	238	0.85	266	282	0.94
<i>ccpB</i>	4,195,810	4,196,745	-	132	126	1.05	120	114	1.05
<i>exoA</i>	4,196,804	4,197,562	-	114	115	1.00	153	155	0.99
<i>rpsR</i>	4,197,627	4,197,866	-	901	1118	0.81	1541	1416	1.09
<i>ssb</i>	4,197,910	4,198,428	-	6595	7206	0.92	6355	6094	1.04
<i>rpsF</i>	4,198,469	4,198,756	-	7759	8462	0.92	7060	6696	1.05
<i>yyaF</i>	4,198,867	4,199,967	-	1092	1216	0.90	1593	2105	0.76
<i>yyaE</i>	4,200,094	4,202,097	-	234	209	1.12	301	300	1.00
<i>yyaD</i>	4,202,448	4,203,464	-	52	57	0.92	55	64	0.85
<i>yyaC</i>	4,203,924	4,204,541	+	62	63	0.98	53	69	0.76
<i>spo0J</i>	4,204,580	4,205,428	-	1216	1053	1.15	1308	1158	1.13
<i>soj</i>	4,205,421	4,206,182	-	1343	1173	1.14	1282	1223	1.05
<i>yyaB</i>	4,206,430	4,206,870	+	175	191	0.92	182	176	1.03
<i>yyaA</i>	4,206,921	4,207,772	-	1224	1195	1.02	1880	1638	1.15
<i>gidB</i>	4,207,894	4,208,613	-	1002	769	1.30	1719	1504	1.14
<i>gidA</i>	4,208,627	4,210,513	-	897	686	1.31	1468	1278	1.15
<i>thdF</i>	4,210,534	4,211,913	-	555	442	1.26	718	704	1.02
<i>jag</i>	4,212,224	4,212,850	-	1174	1123	1.05	1897	2478	0.77
<i>spoIIIJ</i>	4,212,847	4,213,632	-	1148	1087	1.06	1472	1925	0.76
<i>rnpA</i>	4,213,777	4,214,127	-	427	416	1.03	884	1340	0.66

Spo0A regulon

^a Spo0A, AbrB and SigD regulons shown here are described in References 6, 2 and 12, respectively.