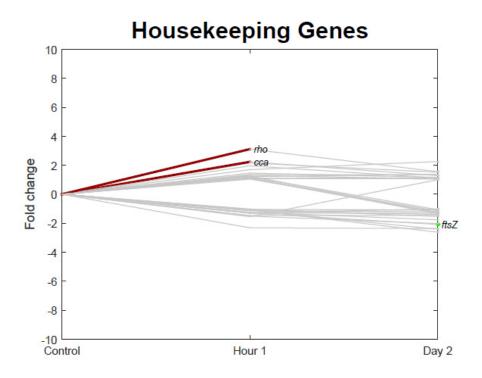
## Supplementary Materials: Microarray-Based Screening of Differentially Expressed Genes of *E. coli* O157:H7 Sakai during Preharvest Survival on Butterhead Lettuce

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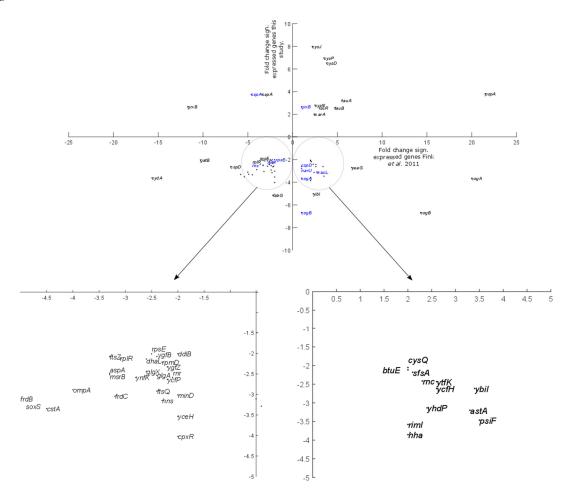
**Figure S1.** Relative expression of *E. coli* O157:H7 Sakai housekeeping genes as determined by Rocha *et al.* (2015) and Zhou *et al.* (2011) [1,2]. A colored line between the control and hour 1 shows that a particular gene was significantly differently expressed one hour after inoculation on the lettuce in comparison with the inoculum. A colored line between hour 1 and day 2 shows that the gene expression of a particular gene was significantly different between these two time points. Colored dots at day 2 show the genes which were significantly differently expressed on day 2 in comparison with the control. Light green: downregulation at  $0.01 \le P < 0.05$ , dark green: downregulation at P < 0.01, light red: upregulation at  $0.01 \le P < 0.05$ , dark red: upregulation at P < 0.01. Grey: no significant difference in expression. Data represent the mean of four biological replicates.

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**Table S1.** List of 31 housekeeping genes as determined by Rocha *et al.* (2015) [1] and Zhou *et al.* (2011) [2] used for Figure S1.

Dutana A	CompNess
Primary Accession	Gene Name
b0095	ftsZ
b0098	secA
b0427	yajR 
b0474	adk
b0912	ihfB
b2231	gyrA
b2519	pbpC
b2536	hcaT
b2566	era
b2699	recA
b3009	yghB
b3056	сса
b3064	ygjD
b3066	dnaG
b3067	rpoD
b3281	aroE
b3295	rpoA
b3368	cysG
b3449	ugpQ
b3648	gmk
b3699	gyrB
b3744	asnA
b3783	rho
b3940	metL
b3952	pflC
b3987	гроВ
b3988	rpoC
b4323	ихиВ
b4324	uxuR
ECs4190	tuf

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**Figure S2.** Scatterplot of common significantly differently regulated genes in this study and the study of Fink *et al.* (2012) [3]. The data of table 5 in Fink *et al.* for *E. coli* O157 genes (p < 0.01) and the supplemental table 1 for *E. coli* K12 (p < 0.05) were compared with the significantly regulated genes at day 2 in this study (p < 0.05). The comparison was based on gene name. The *E. coli* O157 comparison is plotted in blue and the K12 comparison in black. Detail figures for the K12 comparison were made.

## References

- 1. Rocha, D.J.; Santos, C.S.; Pacheco, L.G. Bacterial reference genes for gene expression studies by RT-qPCR: Survey and analysis. *Antonie Van Leeuwenhoek* **2015**, *108*, 685–693.
- Zhou, K.; Zhou, L.; Lim, Q.E.; Zou, R.; Stephanopoulos, G.; Too, H.-P. Novel reference genes for quantifying transcriptional responses of Escherichia coli to protein overexpression by quantitative PCR. BMC Mol. Biol. 2011, doi: 10.1186/1471-2199-12-18.
- 3. Fink, R.C.; Black, E.P.; Hou, Z.; Sugawara, M.; Sadowsky, M.J.; Diez-Gonzalez, F. Transcriptional responses of *Escherichia coli* K-12 and O157:H7 associated with lettuce leaves. *Appl. Environ. Microbiol.* **2012**, *78*, 1752–1764.



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