

**Table 1**

DNA Changes in the Evolved Genomes

Strain	Region/Gene	Product	Genome Position	Type
<a href="#">Skip to Main Content</a>	ig ( <i>insC-isrC</i> )	NA	1961811	SNP
	<b>ig (<i>rpoS</i> leader)</b>	Transcript involved in translational control of <i>rpoS</i>	2751440	SNP
	<i>valS</i>	Valyl-tRNA synthetase	4418389	SNP

Strain	Region/Gene	Product	Genome Position	Type
BW4223	<b>hfq</b>	RNA-binding protein	4337201	SNP
	<i>lysZ</i>	tRNA (lys)	683353–683559	Deletion
BW4227	ig ( <i>insC-isrC</i> )		1961811	SNP
	<b>rpoS</b>	RNA polymerase ( $\sigma^S$ )	2750861	Indel
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Strain	Region/Gene	Product	Genome Position	Type
	<i>valS</i>	Valyl-tRNA synthetase	4418389	SNP
BW4236	ig ( <i>insC-isrC</i> )	NA	1961811	SNP
	<b><i>spoT</i></b>	Bifunctional (p)ppGpp synthetase II	3710130	SNP
	<i>valS</i>	Valyl-tRNA synthetase	4418389	SNP
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Strain	Region/Gene	Product	Genome Position	Type
BW4239	<i>menD</i>	Bifunctional 2-oxoglutarate decarboxylase	2261978	SNP
	<i>gabD</i>	Succinate-semialdehyde dehydrogenase I	2675241	SNP
	<i>rpoS</i>	RNA polymerase ( $\sigma^S$ )	2751015	SNP

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Strain	Region/Gene	Product	Genome Position	Type
	<i>trkH</i>	Potassium transporter	3921075	SNP
	ig ( <i>purH-rrsE</i> )	NA	4095306	SNP
	<i>trkG</i>	Potassium transporter subunit	1314085	Insertion (IS2)



NOTE.—ig, intergene; \*, absent at given position; NA, not applicable; SNP, single nucleotide polymorphism. Genes involved in global regulation are in

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bold. Genome positions are based on genome sequence of *Escherichia coli* K-12 strain BW2952 ([Ferenci et al. 2009](#)).