

Table S1: Primers used in this study.

A. Sequencing primers.

Gene	Primer name	Sequence
Ribosomal protein S7	S7-f	5'-agggtgtgaagaacggcaagcagg-3'
	S7-r	5'-gtcttctctcggctctcgatgtggg-3'
Ribosomal protein S12	S12-f	5'-attcgccacagaaaccggagaag-3'
	S12-r	5'-agaggagaaccgtagaccgggtcga-3'
Ribosomal protein L11	rplKL-f	5'-ctatacccggttatcggtgtcgggatgcc-3'
	rplKL-r	5'-gaagatcacctactcttcaccgtcactc-3'
	rplK-r	5'-tcgaacttgctcgtggaggctcc-3'
Ribosomal protein L14	L14-f	5'-gagtcgttcaccaaggtgaccg-3'
	L14-r	5'-cctgcttgccttgccttaccg-3'
Ribosomal protein L15	L15-f	5'-atcaacacgcaggtcgtcaagg-3'
	L15-r	5'-ggatcgtcatgtcatcgacacg-3'
Elongation factor G	fusA-f	5'-cacaagatggccgagtcacaacaag-3'
	fusA-seq1	5'-tggacctggtccgcatgaagg-3'
	fusA-seq2	5'-ctcgacgtcaggccatcgag-3'
	fusA-seq3	5'- acgctgtccgacgacaagagc-3'
	fusA-seq4	5'-ctacaccacaagaagcagac-3'
	fusA-r	5'-tcaagcctaaagcgtgagaacggggtc-3'
RNA polymerase β subunit	rpoB-II _f	5'-ggccgctacaaggtgaacaagaag-3'
	rpoB-II _r	5'-ccgatcagaccgatgttcggg-3'

Table S1: Primers used in this study (continued).

B. RT-PCR and RT-qPCR Primers.

Gene	Primer name	Sequence
ORF-4	ORF4-f	5'-accgatgcgggatgtgtaattccg-3'
	ORF4-r	5'-gtgcgcgatattgcttcgagcac-3'
RelA	relA-f	5'-cgcctgcacaacatgcgcacatgcg-3'
	relA-r	5'-ggtctccttctgccagtcgagcagc-3'
HrdB	hrdB-f	5'-gattgggcgtaacgctcttg-3'
	hrdB-r	5'-ccatgacagagacggactcg-3'

Figure S1: Intracellular ppGpp levels of the wild-type 1147 (■) and octuple mutant C8 (□) strains grown in liquid GYM medium. Strains were inoculated into liquid GYM medium and incubated on a rotary shaker (200 rpm) at 30 °C, and ppGpp was extracted with 1 M formic acid from cells harvested at the indicated time points. The measurement of ppGpp was repeated at least twice with similar results.

