

GENETICS

Supporting Information

<http://www.genetics.org/cgi/content/full/genetics.109.100735/DC1>

DinB Upregulation Is the Sole Role of the SOS Response in Stress-Induced Mutagenesis in *Escherichia coli*

Rodrigo S. Galhardo, Robert Do, Masami Yamada, Errol C. Friedberg, P. J. Hastings, Takehiko Nohmi and Susan M. Rosenberg

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DOI: 10.1534/genetics.109.100735

FILE S1**Primers used in this study**

yafNwL:

5'TGTATATTCTGGTGTGCATTATTATGAGGGTATCACTGTATGCATCGAATTATTCCGGGGATCCGTCGACC3'

yafPwR

5'ATACCAGGCGGGCGTTATTTTCATTGCAAGCTGGATTTAATGTTGCGGTTTTGTAGGCTGGAGCTGCTTC3'

CatupdinB-F:

5'GAAGCGAATCTGGAGATGGAGATTGTTCCCCAGGGATTACGCGTGGTGTAGGCTGGAGCTGCTTC3'

CatupdinB-R:

5'CGCGCTGCCGCGTTCAAACATATTGCGGTTCTGGTCTCTTAATCATATGAATATCCTCCTTAG3'

dinBcatnock-R: 5' GATACCCTCATAATAATGC 3'

kandinBchrom-F:

5'CGCCACCGAGCTTGGTGAGCTGGCAACCAGTATCAACACCATTGCGTGTAGGCTGGAGCTGCTTC3'

DinBRCAT:

5'GTGATACCCTCATAATAATGCACACCAGAATATACATAATAGTATCATATGAATATCCTCCTTA 3'

dinBOC1F: 5' CCCTGAAATCAAGGTATACTTTAC 3'

dinBOC1R: 5' GTAAAGTATACCTTGATTTTCAGGG 3'

dinBOC2F: 5' GTATACTTTACCCTTGTTGAGAGGT 3'

dinBOC2R: 5' ACCTCTCAACAAGGGTAAAGTATAC 3'

For site directed mutagenesis, each of these two complementary primer pairs (last four primers listed) were used to amplify *dinB* fragments with the desired mutations in the borders. PCR amplification with external primers and both fragments as templates was used to generate full length products.