

Table S10. Primers used for amplification gene mutants from the Keio collection which PCR products were used to transfer the mutations to the *E. coli* MG1655.

Gene	Forward primer (5'--->3')	Reverse primer (5'--->3')
<i>oxyR</i>	ACTCTCGAAACGGGCAGTG	GGTCAGGCGATTATGGAACAG
<i>katG</i>	GATCTCAACTATCGCATCCGTG	CACAACCAGGCCACTGAT
<i>ahpF</i>	ACCTAATTCTTCGGGTGCTG	GGTGCTGGTTGTGCGTTAA
<i>ghrA</i>	CACCGACCACGGATTTGTTATG	GCATCTTCCATATCCGGGCC
<i>grxA</i>	CCTCTGCAAAGTGAGCCTTC	CACCCTGTTCGATGCTCATTAT
<i>lipA</i>	ACCGCTTTGGCTGCTTTC	CATAAAGAGTGACGTGGCGA
<i>rdgB</i>	CTGGTGAAGTTTCTCGGTAAGC	CGTACCACCGCCAATAAAGA
<i>gltD</i>	GCGCGGTGAAGAGATTCTG	GGAAAGGTCAAACGCTCATGC
<i>yaaA</i>	CCCGGTGTTTGATCCATTGC	CAGGCAAACATCACCGCT
<i>recA</i>	GTCGTCAGGCTACTGCGTATG	GTCGCAGTTCTTGCTCACTG