

**Table S1.** DNA quality and quantity of CHL-treated libraries.

Condition	T0 CFU/ml	T24 CFU/ml	260/280 (Nanodrop)	260/230 (Nanodrop)	Qbit HS <sup>1</sup> ng/μl
MG1655/pFT2_2μg_CHL_1	3 × 10 <sup>6</sup>	1 × 10 <sup>9</sup>	1.87	2.15	124
MG1655/pFT2_2μg_CHL_2	1.6 × 10 <sup>6</sup>	7.5 × 10 <sup>8</sup>	1.84	2	184

<sup>1</sup>dsDNA HS (High Sensitivity) Assay Kit.**Table S3.** Primers used for mutants creation, verification, construction of plasmid pACYC184 backbone.

Primers <sup>1</sup>	Sequence (5'-3')
<i>acrZ</i> -F	AGCGGTTAGAATAGTCTCATGACTATATCTGGAGTTGACCTGTAGGCTGGAGCTGCTTC
<i>acrZ</i> -R	GAGAAAAAGAAAATGCCCGACTAAGCGGGCATTACAGGAACATATGAATATCCTCCTTAG
<i>cls</i> -F	TAAACTCATAACAATGCGCTTTCAAAAGGATTTCTAATCTTGTAGGCTGGAGCTGCTTC
<i>cls</i> -R	ATCCATAGTTACTACCTGTTTAACTCTGTTGGCGACGTTTCATATGAATATCCTCCTTAG
<i>mdfA</i> -F	TTATTAAACTCTGCGCGATTATTATTGGCGAAGAAATTGCTGTAGGCTGGAGCTGCTTC
<i>mdfA</i> -R	TTGAGAAATGCCTGATCGCACAAAGCAGTCAGGCATTTTTTCATATGAATATCCTCCTTAG
<i>arcA</i> -F	ACTTCCTGTTTCGATTTAGTTGGCAATTTAGGTAGCAAAGCTGTAGGCTGGAGCTGCTTC
<i>arcA</i> -R	CGCTAAAAAGCGCCGTTTTTTTTTGACGGTGGTAAAGCCGACATATGAATATCCTCCTTAG
<i>hfq</i> -F	AAGGTTCAAAGTACAAATAAGCATATAAGGAAAAGAGAGATGTAGGCTGGAGCTGCTTC
<i>hfq</i> -R	AGGATCGCTGGCTCCCCGTGTAAAAAAACAGCCCGAAACCCATATGAATATCCTCCTTAG
<i>nlpI</i> -F	AACAGGACGTTTCATTCAACCGTGGTCTTCGGGAGTGGGAATGTAGGCTGGAGCTGCTTC
<i>nlpI</i> -R	ATGGCAATCAAAAAAGATTACGGGCTGATGTGTACGTCAGCATATGAATATCCTCCTTAG
Primers <sup>2</sup>	Sequence (5'-3')
<i>acrZ</i> -F	CTCCCTGGCTAATGGAACCG
<i>acrZ</i> -R	TCTGCCAGTGCATTGCCAGC
<i>cls</i> -F	ATATTTGCGCGCGATTGCCC
<i>cls</i> -R	AAGTCCGGGTTCAAATCGAA
<i>mdfA</i> -F	GTCGTTGAGAATAAAGTGCA
<i>mdfA</i> -R	TGCCGAGTGGATACAAAGTG
<i>arcA</i> -F	CCTGTTATGTTGCTGTAAAA
<i>arcA</i> -R	GATGTGGGGACTGCTCAACT
<i>hfq</i> -F	AAATGGTTTATCGAGGTGTT
<i>hfq</i> -R	CTTTGGGTGCGGCGCTTTAC
<i>nlpI</i> -F	GGTCAGGAAGTACCGGTGAA
<i>nlpI</i> -R	GGGCTCAAGGATAGGAGCC
Primers <sup>3</sup>	Sequence (5'-3')
<i>pACYC184_F</i>	ATTCTCATGTGAGTCAACGCCATGAGC
<i>pACYC184_R</i>	GCGTTGACTCACATGAGAATTACAACCTATATCGTATG

<sup>1</sup>Primers used for mutant creation.<sup>2</sup>Primers used for proof of insertion.<sup>3</sup>Primers used for pACYC184 backbone construction.