# S1 Table. List of all bacterial strains used in this study

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| --- | --- | --- | --- | --- |
| **Strain** | **Genotype** | **relevant plasmid** | **Selection** | **Source/Description** |
| AH-E02-148 | *Escherichia coli* K-12 MG1655: F– λ– *ilvG*– *rfb-50 rph-1* | none | none | *E. coli* K-12 laboratory wildtype strain; obtained from the Coli Genetic Stock Center (CGSC #6300) via Prof. Urs Jenal |
| AH-E01-047 | *Escherichia coli* K-12 BW25113: F- Δ(*araD-araB*)567, Δ*lacZ4787(::rrnB-3*), λ-, *rph-1*, Δ(*rhaD-rhaB*)568, *hsdR514* | none | none | our laboratory collection [1] |
| AH-E02-160 | *E. coli* K-12 MG1655 Δ*mrr-hsdRMS-mcrBC* | pWRG99 | Amp100 | this study |
| AH-E03-200 | *E. coli* K-12 MG1655 Δ*mrr-hsdRMS-mcrBC* Δ*mcrA* = ΔRM | none | none | this study; strain lacking all known restriction systems of *E. coli* K-12 |
| AH-E03-217 | *E. coli* K-12 MG1655 ΔRM | pBR322\_ΔP*tet*  F(*pifA::zeoR*) | Amp50  Zeo50 | this study |
| AH-E06-427 | *E. coli* K-12 MG1655 ΔRM | pBR322\_ΔP*tet*  pAH200e | Amp50  Kan25 | this study; pAH200e (F-plasmid tagged with kanamycin resistance at *tn1000* obtained from Prof. Christoph Dehio) |
| AH-E07-555 | *E. coli* K-12 W1872 | F | none | *E. coli* K-12 strain carrying a wildtype F-plasmid |
| AH-E03-233 | *E. coli* K-12 MG1655 ΔRM *waaC::kanR* | none | Kan25 | this study |
| AH-E03-235 | *E. coli* K-12 MG1655 ΔRM *waaG::kanR* | none | Kan25 | this study |
| AH-E03-243 | *E. coli* K-12 MG1655 ΔRM *wbbL(+)* | none | none | this study |
| AH-E04-321 | *E. coli* K-12 BW25113 *btuB::kanR* | none | Kan25 | this study |
| MBu-E01-044 | *E. coli* K-12 BW25113 *tolC::kanR* | none | Kan25 | this study |
| MBu-E01-021 | *E. coli* K-12 BW25113 *wecB::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| MBu-E01-007 | *E. coli* K-12 BW25113 *fhuA::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| AH-E05-396 | *E. coli* K-12 BW25113 *yncD::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| MBu-E01-018 | *E. coli* K-12 BW25113 *lamB::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| MBu-E01-015 | *E. coli* K-12 BW25113 *tsx::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| MBu-E01-016 | *E. coli* K-12 BW25113 *fadL::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| MBu-E01-011 | *E. coli* K-12 BW25113 *ompA::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| MBu-E01-012 | *E. coli* K-12 BW25113 *ompC::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| MBu-E01-013 | *E. coli* K-12 BW25113 *ompF::kanR* | none | Kan25 | obtained from Prof. Urs Jenal (KEIO collection [2]) |
| AH-E07-546 | *E. coli* K-12 BW25113 *lptD\_*Δ(L394-V396)::Y | none | none | this study; spontaneous mutant resistant to LptD-targeting siphoviruses |
| AH-E07-545 | *E. coli* K-12 BW25113 *lptD\_*Δ(Y658-Y678)::H | none | none | this study; spontaneous mutant resistant to LptD-targeting siphoviruses |
| AH-E01-044 | *E. coli* B REL606 | none | none | obtained from Dr. Jenna Gallie |
| AH-E03-168 | *E. coli* UTI89 | none | none | obtained from Prof. Urs Jenal |
| AH-E04-284 | *E. coli* CFT073 *rpoS(+)* | none | none | our laboratory collection [3] |
| AH-E06-481 | *E. coli* 55989 | none | none | our laboratory collection [3] |
| AH-E04-297 | *Salmonella enterica* subsp. *enterica* serovar Typhimurium 12023s (also known as ATCC 14028) | none | none | obtained from Prof. Dirk Bumann |
| AH-E06-438 | *S.* Typhimurium SL1344 | none | none | obtained from Prof. Mederic Diard |
| AH-E03-169 | *E. coli* K-12 EMG2 | none | none | most ancestral available *E. coli* K-12 strain; obtained from the Coli Genetic Stock Center (CGSC #4401) |
| AH-E01-053 | *E. coli* EB1484 (lysogen of phage P1 *clr100Km*) | P1 prophage | none | lysogen of a temperature-inducible P1 prophage tagged with kanamycin resistance; obtained from Prof. Kenneth Kreuzer |

# References (S1 Table)

1. Datsenko KA, Wanner BL. One-step inactivation of chromosomal genes in *Escherichia coli* K‑12 using PCR products. Proc Natl Acad Sci USA. 2000;97(12):6640-5. doi: 10.1073/pnas.120163297. PubMed PMID: 10829079; PubMed Central PMCID: PMC18686.

2. Baba T, Ara T, Hasegawa M, Takai Y, Okumura Y, Baba M, et al. Construction of *Escherichia coli* K-12 in-frame, single-gene knockout mutants: the Keio collection. Mol Syst Biol. 2006;2:2006 0008. doi: 10.1038/msb4100050. PubMed PMID: 16738554; PubMed Central PMCID: PMC1681482.

3. Fino C, Vestergaard M, Ingmer H, Pierrel F, Gerdes K, Harms A. PasT of *Escherichia coli* sustains antibiotic tolerance and aerobic respiration as a bacterial homolog of mitochondrial Coq10. Microbiologyopen. 2020;9(8):e1064. Epub 2020/06/20. doi: 10.1002/mbo3.1064. PubMed PMID: 32558363; PubMed Central PMCID: PMCPMC7424257.