



Figure S1. Stab assay to determine T4 phage resistance in all *E. coli* K12 strains. Zones of lysis are shown in the center of each plate for (A) DFB1655 L9, (B) MG1655, (C) JW2019-1, (D) MG1655 transformed with pCRTM4-TOPO[®]-*wbbL*+, and (E) JW2019-1 transformed with pCRTM4-TOPO[®]-*wbbL*+. Cells were spread-plated for each strain onto LB agar plates containing the appropriate antibiotics and 1mM CaCl₂, and then stabbed with concentrated T4 bacteriophage using the back of sterile cotton swab. Plates were incubated for 16-20 hours at 37°C.