**Supplementary Information**

**![A picture containing diagram

Description automatically generated]()**

**Supplemental Figure 1. PCR Differentiation of Lambda phage variants.** Shown from left to right are the (1) Standard Ladder, (2) a water control, (3) λTemp, (4) λVir, (5) λChl, (6) λKan, an (7) *Escherichia coli* bacterial host control, and a (8) O’GeneRuler Express DNA Ladder (5kb).

**![A picture containing plastic, watch, gauge

Description automatically generated]()**

**Supplemental Figure 2. Plaque morphology difference in** λ**Temp and** λ**Vir.** Shown is a double-layer soft agar lawn of *E. coli* C containing both λTemp (turbid plaques) and λVir (clear plaques).