Table S3. Frequency of dP-resistant clones in MG1655Δ*lacZ*::*hsvtk-cat* created by HC cassette PCR-amplified using different polymerases.

The HC cassette was amplified with either $Vent_R$® DNA polymerase or Phusion® DNA polymerase ((New England Biolabs) using primer P1 and P2 (Table S1) to attach homology arms for targeting to the *lacZ* locus. The resultant DNA fragment was electroporated into *E.coli* strain MG1655 harboring pKD46 and plated onto an LB-Cm and LB-Cm/dP plate. The frequency of dP resistance (%) was calculated by:

DNA polymerase type	Frequency of dP^- resistant clones [%]
Phusion®	0.2 ± 0.1
$Vent_R$®	0.8 ± 0.3

100 × [number of colonies observed on Cm/dP plates] / [number of colonies on the Cm plate]

The numbers show the average of 3 samples with standard deviations.