

**Table S2. Sequence analysis of the *hsvtk* gene from dP-resistant clones that arose after the first step of recombination.**

Out of the 92 transformants (chloramphenicol-resistant clones isolated from the pool of MG1655 electroporated with HC cassette), we found three dP-resistant clones. The cassette inserted on chromosome was PCR-amplified using primer P30 and P32 (Table S1) for the sequence analysis.

Clone number	Nucleoside substitution	Amino Acid substitution
1	G599A	R200D
2	C123T, G647A	R216H
3	C391T	P131S