Supplementary Table S3 Variables and parameters used in the VGT model

Symbol	Description
Model variables	
M0	Number of *E. coli* MG1655
M1	Number of *E. coli* MG1655 with RP4
t	Time (h)
Model parameters	
*r*0/*r*1	Growth rate of M0/Growth rate of M1
*d*0/*d*1	Death rate of M0 / Death rate of M1
K	Carrying capacity of the environment, set as 10^8
α	Probability of plasmid loss
β	Conjugative transfer ratio
Calibration Parameters	
$α_{ref}$	Reference value of plasmid loss probability
$β_{ref}$	Reference value of conjugation ratio
$K_α$	Plasmid loss ratio coefficient
$K_β$	Conjugation ratio coefficient