

Table S2. Genotypes of the evolved clones from competition between *H526Y*^{Rif} and *S531F*^{Rif}

Genotype of H526Y Evolved Clones

galK:YFP, rpoB (H526Y), rpoA (T196I), waaZ (S280P)
galK:YFP, rpoB (H526Y), rpoA (T196I)
galK:YFP, rpoB (H526Y), rpoA (T196I)
galK:YFP, rpoB (H526Y), rpoA (T196I)
galK:YFP, rpoB (H526Y), rpoA (T196I)
galK:YFP, rpoB (H526Y), rpoA (T196I)
galK:YFP, rpoB (H526Y), rpoA (T196I)
galK:YFP, rpoB (H526Y), rpoA (T196I)
galK:CFP, rpoB (H526Y), rpoC (Unknown)
galK:CFP, rpoB (H526Y), yifE (G39D)
galK:CFP, rpoB (H526Y), rpoC (R1224C)
galK:CFP, rpoB (H526Y), rpoC (S486P)
galK:CFP, rpoB (H526Y), rpoC (S486P)
galK:CFP, rpoB (H526Y), rpoC (S486P)
galK:CFP, rpoB (H526Y), rpoC (H540P)

Genotype of S531F Evolved Clones

galK:YFP, rpoB (S531F), envR (IS5)
galK:YFP, rpoB (S531F), znuA (F37L), sspA (L156P)
galK:YFP, rpoB (S531F), znuA (F37L), sspA (L156P)
galK:YFP, rpoB (S531F), yeaR (IS186)
galK:YFP, rpoB (S531F), nadK/recN (Intergenic), yedW (IS1)
galK:YFP, rpoB (S531F), rpoC (K50T)
galK:YFP, rpoB (S531F), paoB (V231E)
galK:YFP, rpoB (S531F), nrfG/gltP (Intergenic)