Estimated frequency of resistant mutants

Number of parasites to obtain 1 resistant mutant

MIR *in vitro* (Dd2/Naive donor cells)
MIR *in vitro* (3D7/Naive donor cells)
Regrowth *in vitro* (3D7/Endemic donor cells)
Regrowth *in vitro* (Field/Endemic donor cells)
Regrowth *in vivo* NSG (3D7/Naive donor cells)
Regrowth *in vivo* VIS (3D7/Naive individuals)

Mutation rate: 1e−10 3.2e−10 1.05e−09 5.6e−09 3e−08 data stochastic model s