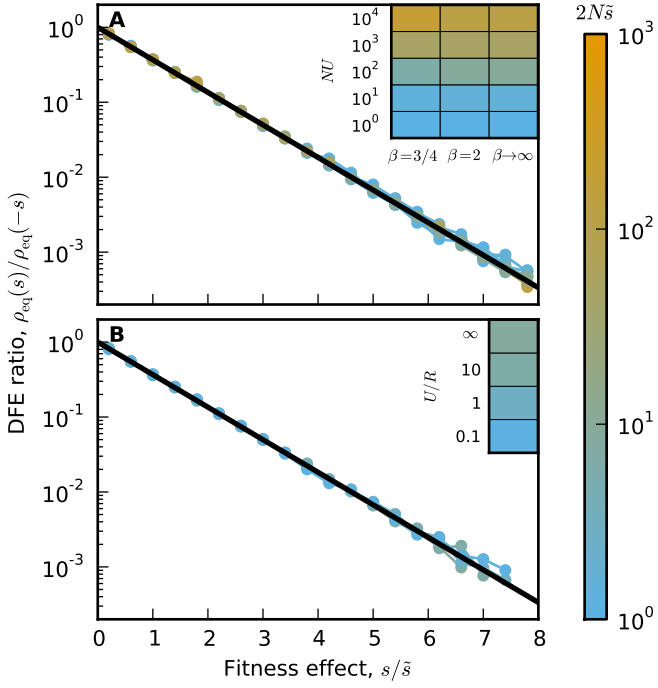

FIG. S2 The equilibrium DFE for different underlying DFEs and recombination rates. A) The equilibrium ratio of beneficial mutations to deleterious mutations for mutations with absolute effect $|s|$, averaged over 100 replicate simulations. We examined the effect of underlying DFEs in the stretched exponential family, $\rho_0(|s|) \propto \exp[-(s/s_0)^\beta]$. Specifically, we simulated heavy-tailed stretched exponential ($\beta = 3/4$), half-Gaussian ($\beta = 2$), and uniform ($\beta \to \infty$) underlying DFEs. $Ns_0 = 100$ for all simulations. B) The equilibrium DFE ratio in populations with recombination. As the recombination rate increases, $2N\tilde{s} \to 1$ as mutations begin to fix independently. $NU = 100$, $Ns_0 = 10$ for all simulations. We used FFPopsim (Zanini and Neher, 2012) to simulate recombining populations.

REFERENCES

Zanini, F. and Neher, R. A. 2012. FFPopSim: An efficient forward simulation package for the evolution of large populations. *Bioinformatics* 28:3332–3333.