Figure S4  Invasion probability of $A_1$ as a function of the recombination rate and the continental frequency of $B_1$. Panels are for different values of the continental frequency $q_c$ of the beneficial background allele ($B_1$). Curves show numerical solutions to the branching process (Eq. 61), conditional on initial occurrence of $A_1$ on background $B_1$ (blue), on background $B_2$ (red), and when averaged across backgrounds with weights determined by the equilibrium frequency $\hat{q}_B$ of $B_1$ (black). Dots represent the point estimates across $10^6$ simulations under the branching-process assumptions (see Methods). Error bars span twice the standard error on each side of the point estimates, but are too short to be visible. Parameters other than $q_c$ are the same in all panels: $a = 0.03$, $b = 0.04$ and $m = 0.032$. 