S13 Figure: Power of gene-based methods in 3K vs. 10K samples, as a function of ratio of causal to total number of variants per locus.



All loci simulated in both 3K and 10K samples are shown as grey points in both panels A) and B).

Red points are loci simulated in 3K samples; blue points are loci simulated in 10K samples. In both sample sizes, SKAT-O p-values are more significant as the ratio of causal to total number of variants increases.



## <u></u> 2 6 0.9 0.9 0.9 0.8 0.8 0.8 0.7 0.7 0.7 0.6 0.6 0.6

Power of gene-based method MiST at alpha = 1e-04 in 3K and 10K samples

