Power to detect an association through GWAS for 177 genotypes with 3 replicates and $\mathrm{H}^{2}\mathrm{=}0.8$ 1.0 a²=0.22 detected with 95% power 8.0 0.6 a²=0.12 detected/with 50% power 0.4 0.2 0.0 0.0 0.1 0.2 0.3 0.4 0.5

Genetic effect a² (as proportion of H²)

Power