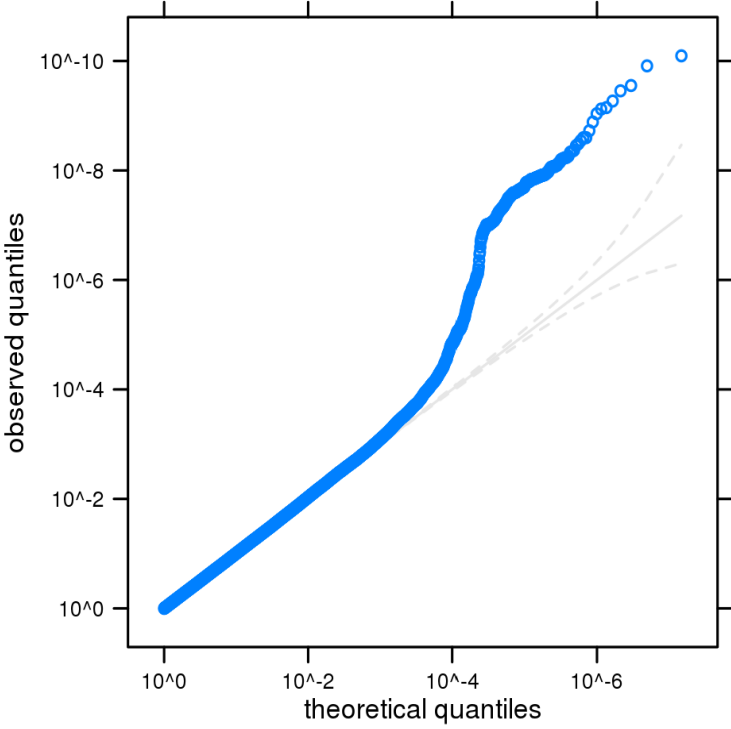


**Supplementary Figure 1.** Quantile-quantile plot of p-values from the discovery group plotted on a logarithmic scale. Gray line indicates expected p-value distribution under the null hypothesis. Blue dots indicate observed p-values. Dashed lines represent a 95% confidence envelope assuming the test results are independent.



**Supplementary Table 1. Quality statistics for the discovery group GWAS.**

a) Quality statistics describing the two significant SNPs in 23andMe customers of European ancestry. Both SNPs were imputed.  $R^2$ =observed variance in imputed dosages as a fraction of the expected variance (a measure of imputation quality).

b) Average imputed dosage of the alphabetically second allele in rosacea cases and controls.

**a**

<b>SNP</b>	<b>Average <math>R^2</math></b>	<b>Minimum <math>R^2</math></b>	<b>Dosage of minor allele</b>
rs763035	0.8806	0.7749	0.8613
rs111314066	0.6893	0.6350	0.0167

**b**

<b>SNP</b>	<b><u>Controls</u> Average imputed dosage of minor allele</b>	<b><u>Rosacea Cases</u> Average imputed dosage of minor allele</b>
rs763035	0.8514	0.8813
rs111314066	0.0162	0.0256