

**Supplementary Table 3.** Power calculation results from TDT for discrete traits (affection) using genetic power calculator

SNPs	Risk allele frequency	Power	Number of families needed for 80% power
rs218052	0.325	0.200	1578
rs194085	0.237	0.170	1963
rs150630	0.370	0.174	1907
rs390	0.459	0.136	2720
rs160499	0.306	0.214	1452
rs385	0.370	0.174	1907
rs41457	0.148	0.116	3537
rs395	0.384	0.167	2020
rs41463	0.117	0.100	4647

High risk allele frequency=0.3, Additive model, Prevalence=0.01, Genotype relative risk Aa=1.5, D-prime=1 and type I error rate=0.05. TDT: transmission disequilibrium test, SNPs: single-nucleotide polymorphisms