

Supplementary Table 1. Distribution of Frequencies of 22 Rare variants

Rare Variant	Genomic Position	MAF(90 CEU)	MAF(Simulated Population of 1,000,000)
1	237899024	0.022222	0.022004
2	237908108	0.011111	0.011083
3	237917810	0.005556	0.005542
4	237917891	0.044444	0.044539
5	237918071	0.011111	0.011083
6	237926760	0.033333	0.033395
7	237940308	0.011111	0.011149
8	237942118	0.011111	0.011127
9	237945230	0.005556	0.005582
10	237945292	0.005556	0.005564
11	237948355	0.005556	0.005583
12	237950184	0.005556	0.005542
13	237952052	0.011111	0.011145
14	237952173	0.005556	0.005453
15	237952223	0.005556	0.005508
16	237952460	0.005556	0.005545
17	237954433	0.005556	0.005531
18	237954571	0.005556	0.005635
19	237954805	0.022222	0.022192
20	237961045	0.005556	0.005623
21	237961094	0.011111	0.011075
22	237961508	0.016667	0.016584