

Supplementary Figures and Tables

Table S1. Comparison of SNPs allele frequencies in RC group (n=171 - cases) and CTRL (n=773). (*dbSNP: variant identifier; A1: effect allele; F_A: frequency among cases; F_U: frequency among controls; A2: non-effect allele; CHISQ: allelic test chi-square statistic; P: allelic p-value; OR: odds (allele 1 | cases)/odds (allele 1 | controls)*). No significant association (nominal p-values) was detected.

dbSNP	Gene	A1	F_A	F_U	A2	CHISQ	P	OR
rs10754593	RYR2	"G"	0.401	0.395	"C"	0.04	0.84	1.03
rs1162394	SRGAP3	"C"	0.430	0.398	"G"	1.19	0.20	1.14
rs694936	NFKBIZ	"T"	0.456	0.436	"A"	0.46	0.50	1.09
rs1456114	PTPLB	"G"	0.322	0.345	"A"	0.67	0.41	0.90
rs4580655	TACR3	"G"	0.383	0.391	"A"	0.069	0.79	0.97
rs456290	SGCD	"C"	0.140	0.158	"T"	0.65	0.42	0.87
rs3250	TMEM14	"C"	0.439	0.450	"T"	0.15	0.70	0.95
rs531003	LPAR1	"C"	0.269	0.263	"G"	0.06	0.81	1.03
rs25681	C5	"T"	0.447	0.437	"C"	0.13	0.72	1.05
rs10760153	RAB14	"C"	0.439	0.452	"T"	0.19	0.66	0.95
rs12820238	EPYC	"T"	0.155	0.148	"G"	0.12	0.72	1.06

Table S2: Comparison of SNPs allele frequencies in allergic group (n=279 - cases) and CTRL (n=773);*A1: effect allele; F_A: frequency among cases; F_U: frequency among controls; A2: non-effect allele; CHISQ: allelic test chi-square statistic; P: allelic p-value; OR: odds (allele 1 | cases)/odds (allele 1 | controls)*). Significant associations (nominal p-values) are highlighted in bold.

dbSNP	Gene	A1	F_A	F_U	A2	CHISQ	P	OR
rs10754593	RYR2	"G"	0.403	0.395	"C"	0.13	0.72	1.04
rs1162394	SRGAP3	"C"	0.450	0.398	"G"	4.58	0.032	1.24
rs694936	NFKBIZ	"T"	0.450	0.436	"A"	0.32	0.57	1.06
rs1456114	PTPLB	"G"	0.321	0.345	"A"	1.05	0.31	0.90
rs4580655	TACR3	"G"	0.389	0.391	"A"	0.0056	0.94	0.99
rs456290	SGCD	"C"	0.142	0.157	"T"	0.83	0.36	0.88
rs3250	TMEM14	"C"	0.446	0.450	"T"	0.026	0.87	0.98
rs531003	LPAR1	"C"	0.274	0.263	"G"	0.28	0.60	1.06
rs25681	C5	"T"	0.471	0.437	"C"	2.00	0.16	1.15
rs10760153	RAB14	"C"	0.462	0.452	"T"	0.20	0.66	1.05
rs12820238	EPYC	"T"	0.167	0.148	"G"	1.17	0.28	1.16

Figure S1: Allelic discrimination plots resulting from the SNP genotyping assay for the 11 analysed SNPs.

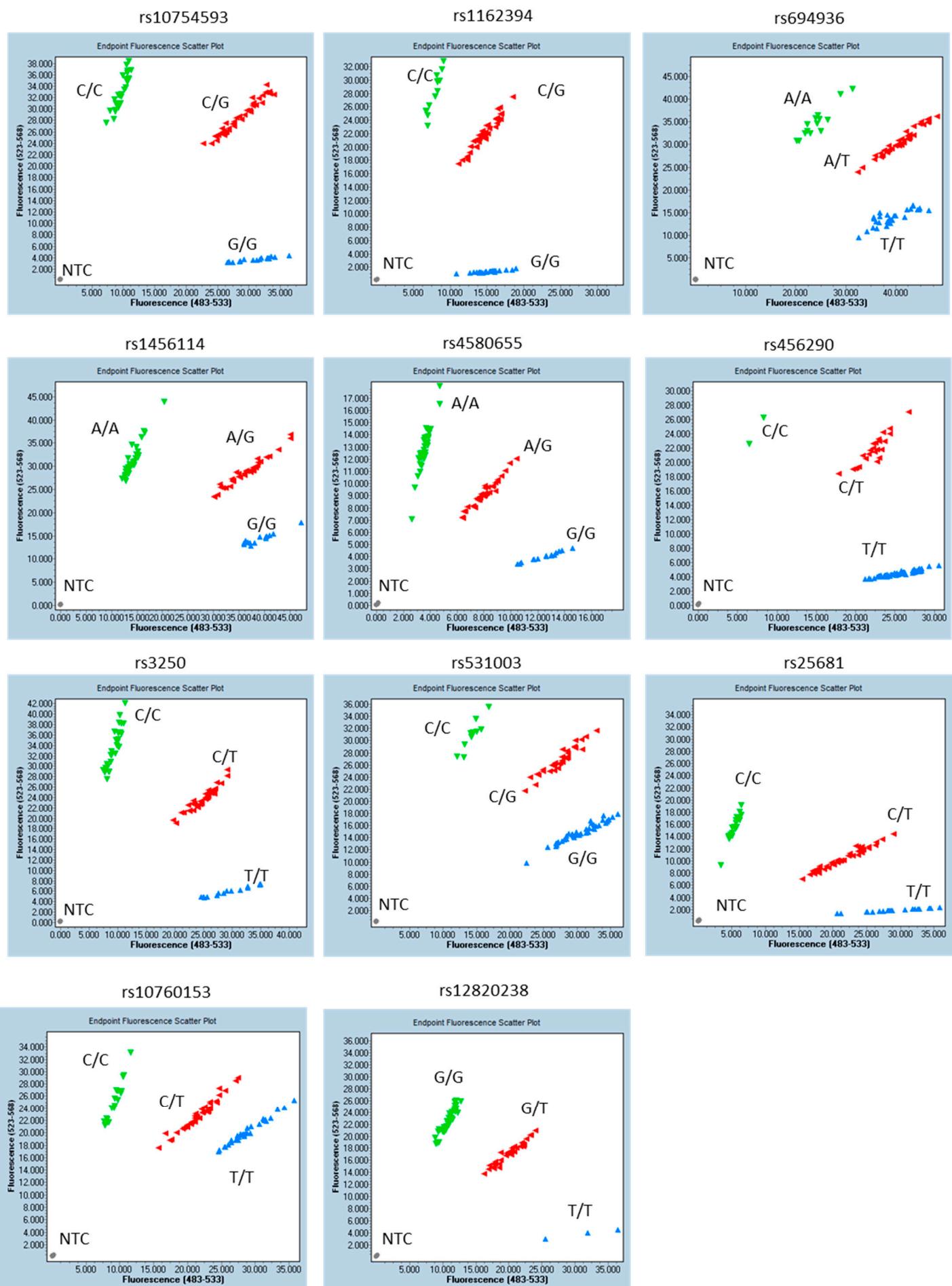


Figure S2. Representation of the allelic distribution for the rs25681 SNP in *C5* gene in the four Italian macro-areas (*N_ITA*=northern Italy, *C_ITA*=central Italy, *S_ITA*=southern Italy, *SARD*=Sardinia).

