

**ESM Table 12. Comparisons of regional LD and allelic discrepancies of rs10229583 among different populations using the HapMap phase 3 data.**

Population	Genotype frequencies			Allele frequencies		Regional LD variation	Allelic difference
	G/G	A/G	A/A	Risk allele (G)	Non-risk allele (A)	Monte Carlo <i>P</i>	$\chi^2$ test <i>P</i>
CHB	0.664	0.307	0.029	0.818	0.182	--	--
JPT	0.777	0.223	0.000	0.888	0.112	0.0107	0.0278
CEU	0.566	0.345	0.088	0.739	0.261	0.0018	0.0342
YRI	0.517	0.415	0.068	0.724	0.276	0.0003	0.0085

Monte Carlo and  $\chi^2$  test *P* refer to the *P* values testing for the regional LD variation and allelic difference between CHB and other populations, respectively. CHB: Han Chinese in Beijing, China; JPT: Japanese in Tokyo, Japan; CEU: Utah residents with Northern and Western European ancestry from the CEPH collection; YRI: Yoruban in Ibadan, Nigeria.