

Supplementary Table S5: For 789 genotyped samples of 830 samples, 21 samples were excluded in which the sample call rate was  $<0.99$ , the proportion IBD was  $>0.1875$ , and outliers from Japanese clusters identified by principal component analysis. In our study, we used 766 samples in GWAS.

Assessment			
	Total	830	
	Successful experiment	789	
		Extract	Exclude
	Call Rate $\geq 95\%$	787	2
	estimate IBD $< 0.1875$		14 pair
	population structure		8
Number of excluded samples			21
Number of samples for analysis		766	