



**Supplemental Fig. S2.** Genome-wide association of circulating 25-hydroxyvitamin D concentrations with chromosome positions and  $-\log_{10} P$  value (Manhattan plot) and quantile-quantile plots for mega-analysis. (A) Manhattan plot for mega-analysis. (B) Quantile-quantile plot (QQ-plot): The Y-axis shows observed  $-\log_{10} P$  values, and the X-axis shows the expected  $-\log_{10} P$  values for mega-analysis. GC, group-specific component; PDE3B, phosphodiesterase 3B; ACTE1P, actin epsilon 1, pseudogene; NADSYN1, glutamine-dependent NAD(+) synthetase.