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**Supplementary Figure 1.** Overall study scheme of two-stage genome-wide association study for female obesity

**Supplementary Figure 2.** Regional plots of associated loci for BMI (A), WHR (B), and WC (C) in females

## **Discovery stage**

KARE GWAS for BMI, WHR, and WC (N = 4,658 females)



SNPs with *P*-value < 0.05

## **Replication stage**

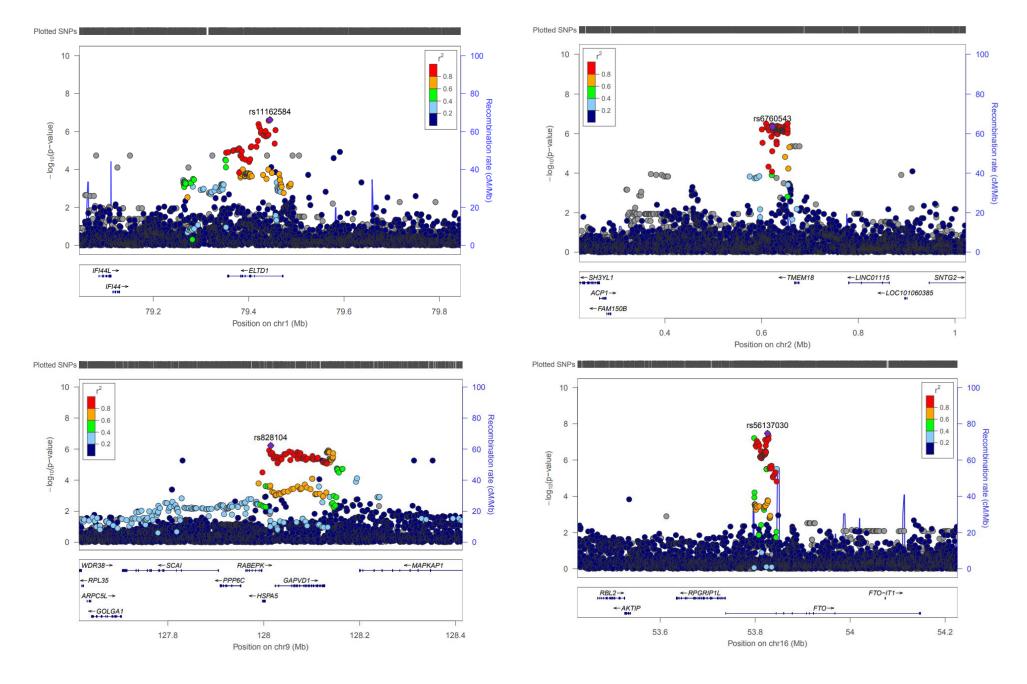
- HEXA (N = 2,048 females)
- CAVAS1816 (N = 957 females)
- CAVAS3667 (N = 2,290 females)



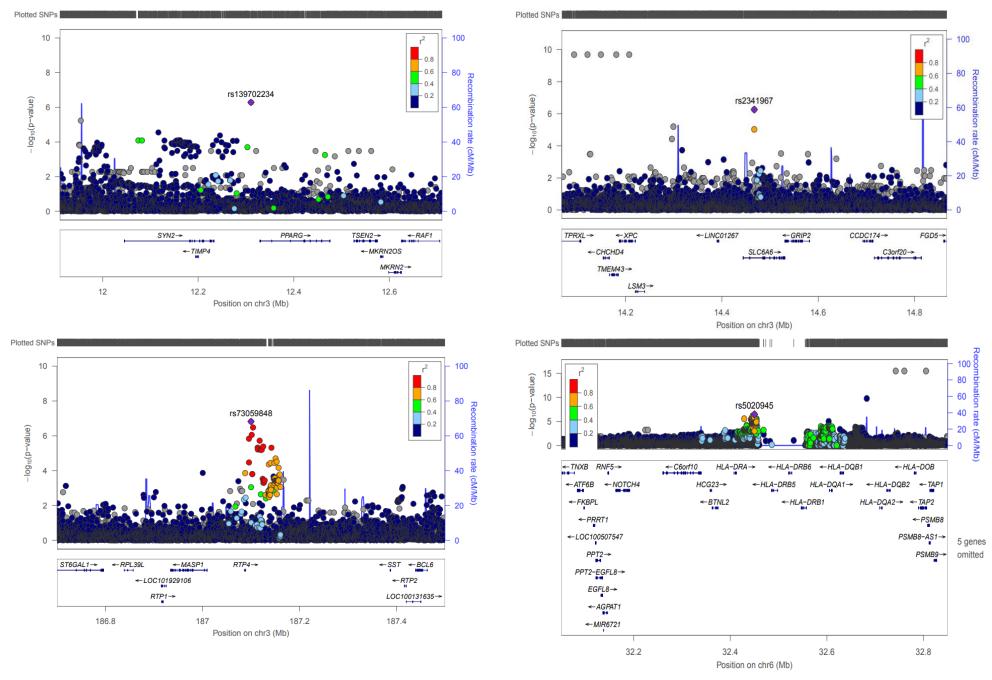
## **Meta-analysis**

for SNPs validated in the replication stage (Discovery stage + Replication stage, N = 9,958 females)

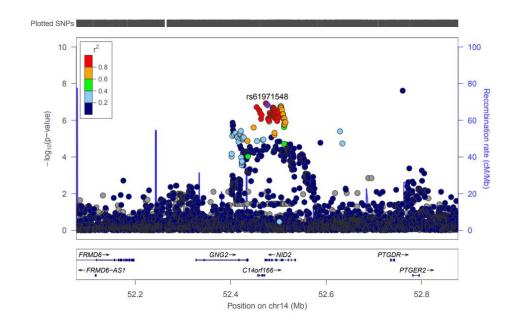
## **Supplementary Fig. 1**

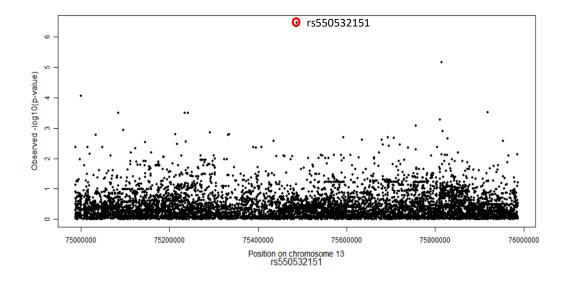


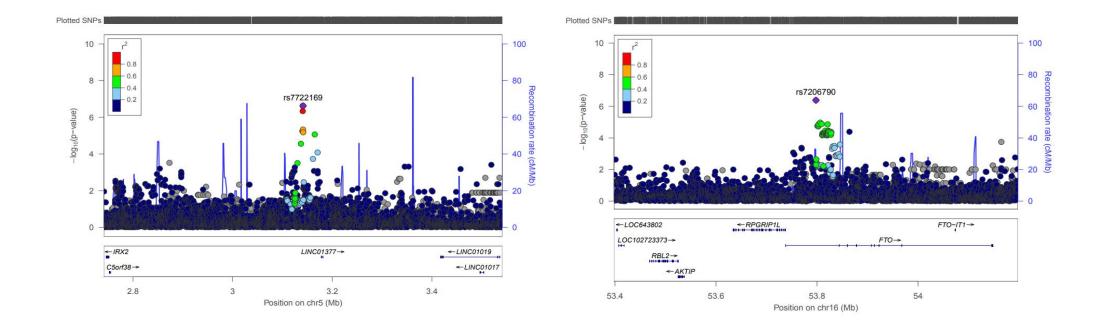
Supplementary Fig. 2(A)



Supplementary Fig. 2(B)







Supplementary Fig. 2(C)