

Figure S1. Results of Mendelian randomization analysis. (A) Correlation of GCST90001482 with T2DM. (B) Correlation of GCST90001492 with T2DM. (C) Correlation of GCST90001499 with T2DM. (D) Correlation of GCST90001548 with T2DM. T2DM, type 2 diabetes mellitus.

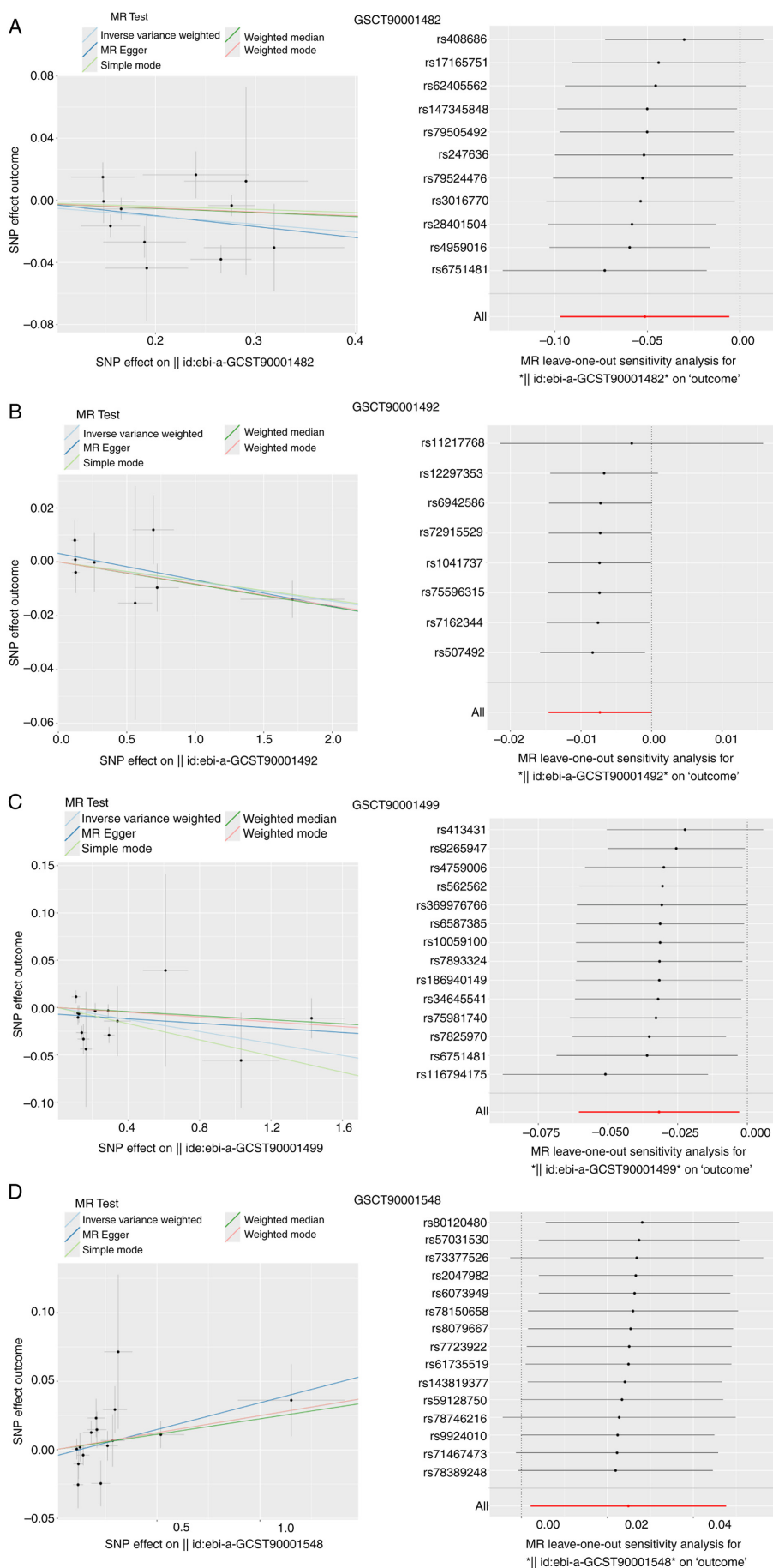


Figure S2. GSEA analyzed the biological functions and associated pathways of five biomarkers. (A) GSEA analyzed the biological functions and associated pathways of ERAP2. (B) GSEA analyzed the biological functions and associated pathways of HLA-DQB1. (C) GSEA analyzed the biological functions and associated pathways of HLA-DRB5. (D) GSEA analyzed the biological functions and associated pathways of MAPIB. (E) GSEA analyzed the biological functions and associated pathways of OAS3. GSEA, gene set enrichment analysis; ERAP2, endoplasmic reticulum aminopeptidase 2; HLA, human leukocyte antigen; MAPIB, microtubule-associated protein 1B; OAS3, 2'-5'-oligoadenylate synthetases.

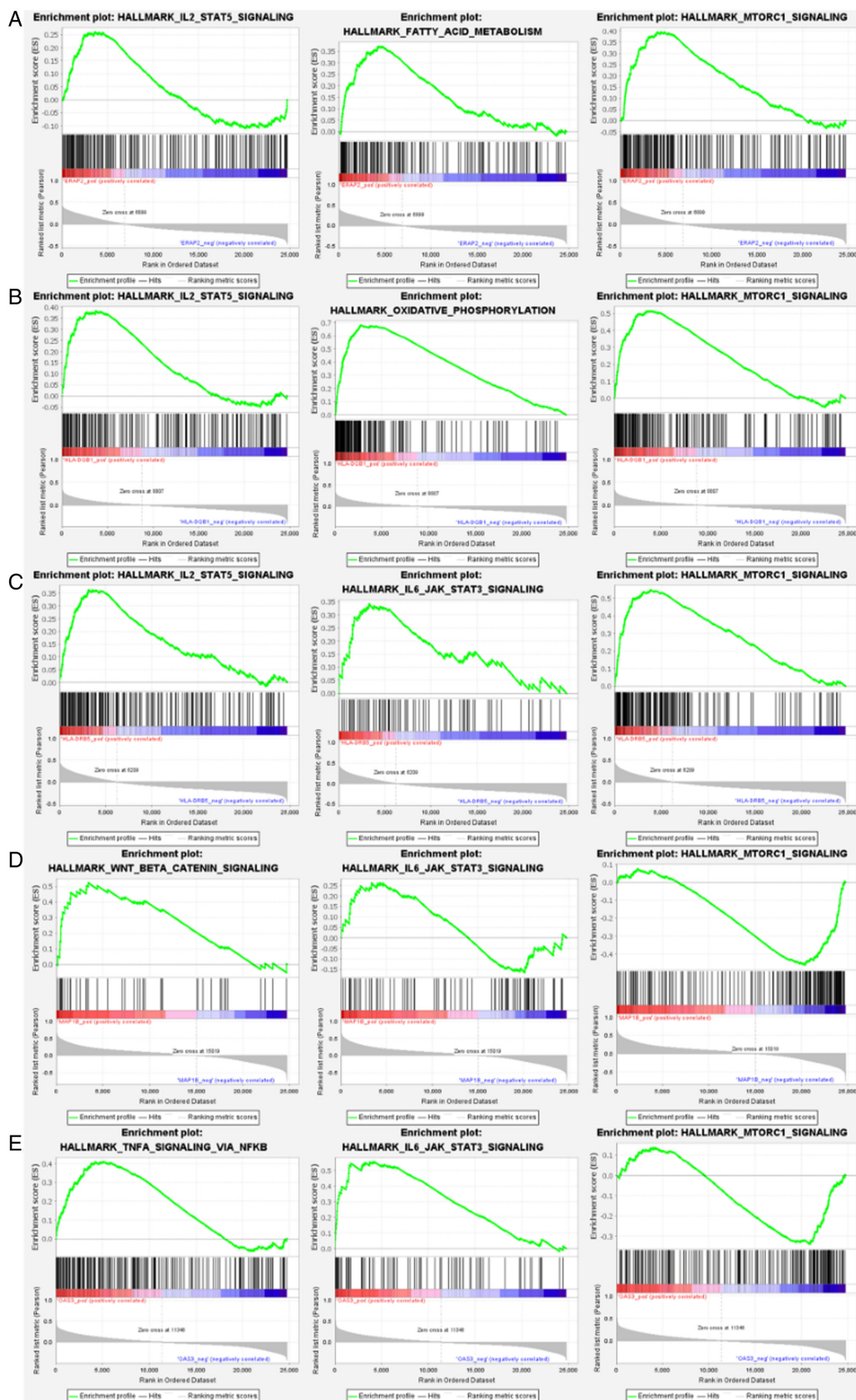


Figure S3. Bubble diagram of the results of multiple ligand-receptor-mediated cellular interactions based on analysis of single-cell sequencing data.

