

**File name: Supplementary Data 1**

**Description:** Genes associated with breast cancer at FDR < 0.10 using the MiXcan or PrediXcan approaches in 58,648 women, and the corresponding S-PrediXcan results in a larger sample of 228,951 women of European ancestry.

**File name: Supplementary Data 2**

**Description:** MiXcan GReX prediction models for genes significantly associated with breast cancer risk.