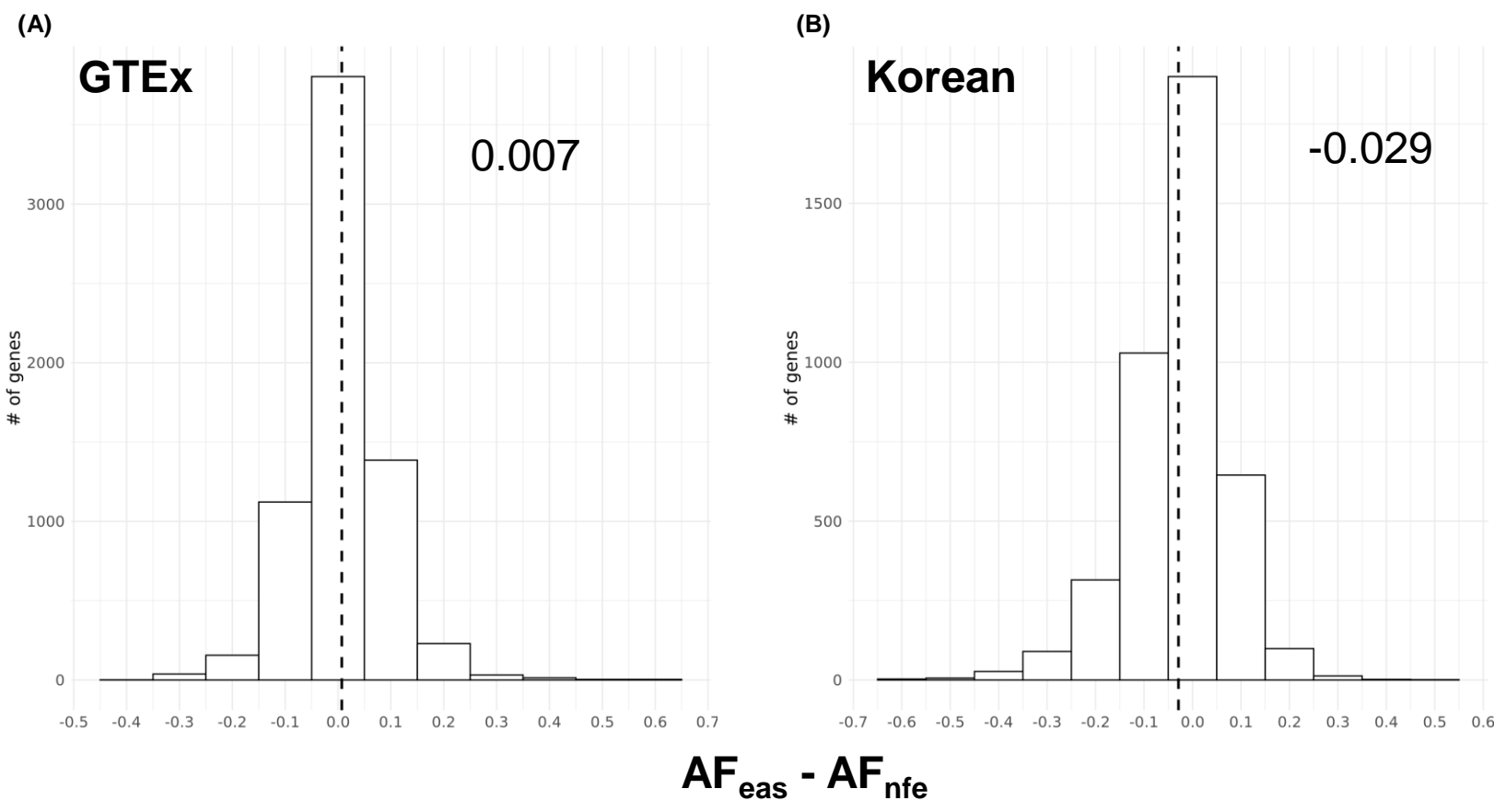# Supplementary Figure 1. Comparing allele frequency of SNPs in genes between GTEx-based and Korean-based GReX model
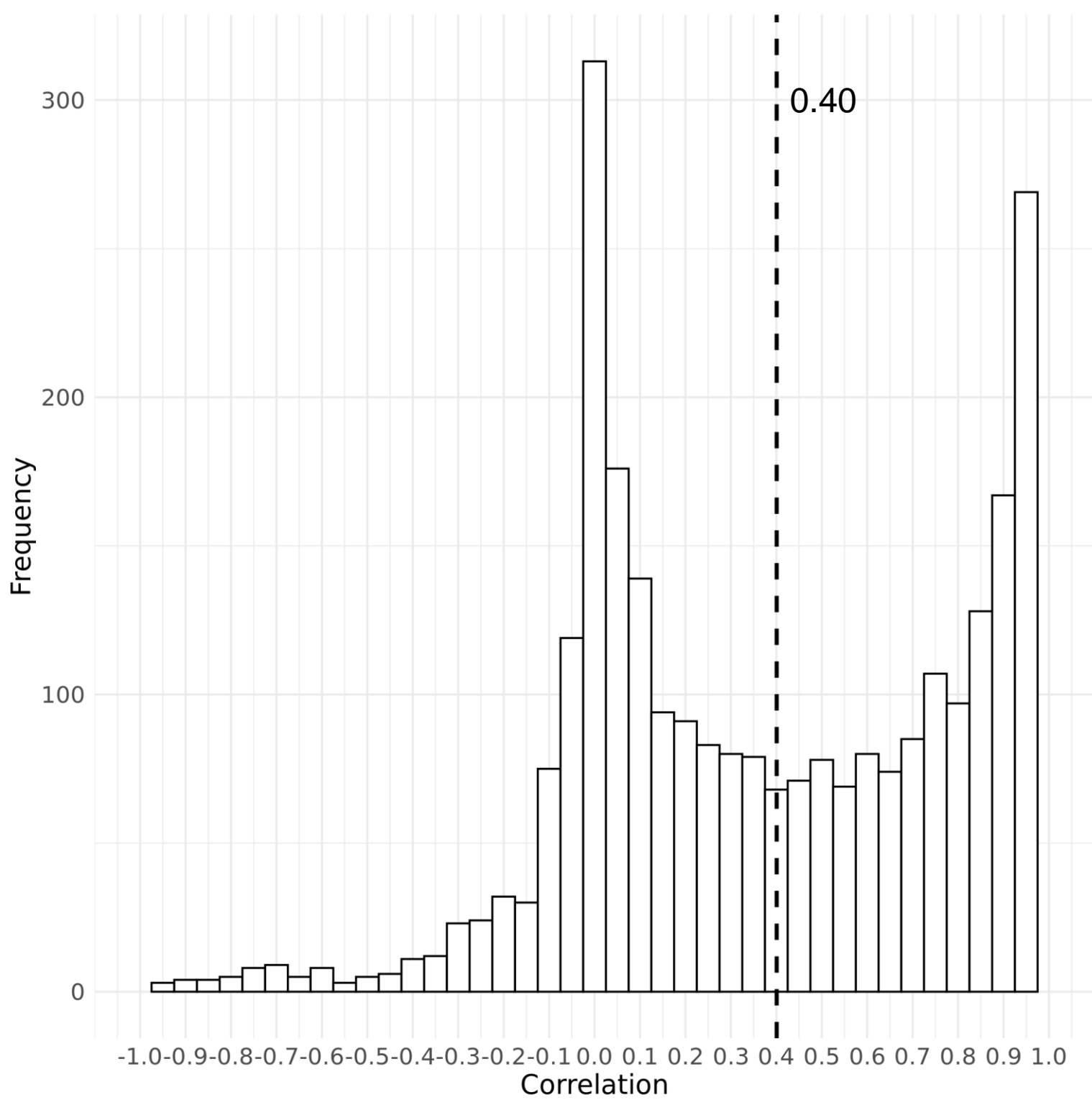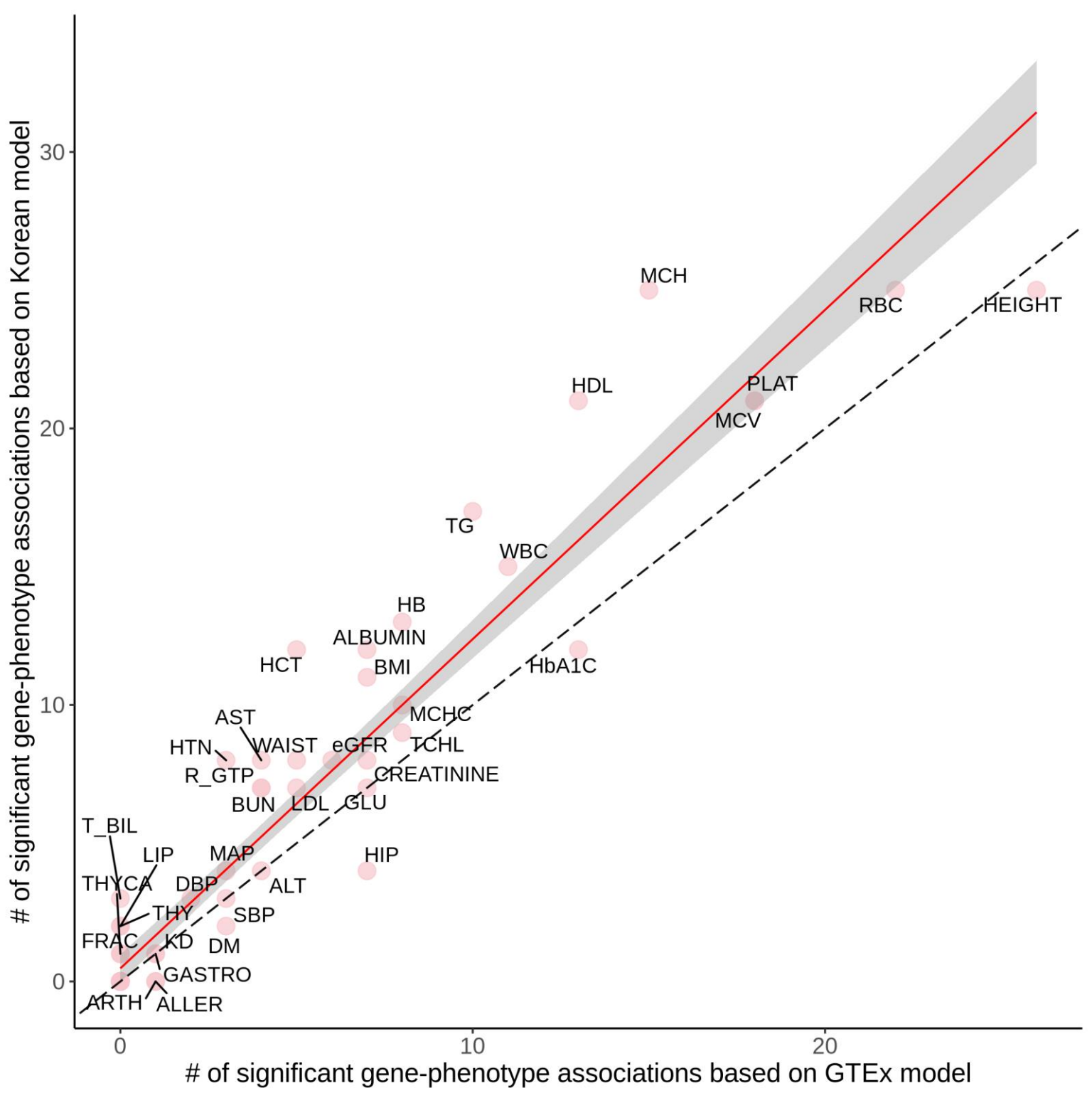
(A)

GTEx

0.007

# of genes

3000

2000

1000

0

-0.5 -0.4 -0.3 -0.2 -0.1 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7

(B)

Korean

-0.029

# of genes

1500

1000

500

0

-0.7 -0.6 -0.5 -0.4 -0.3 -0.2 -0.1 0.0 0.1 0.2 0.3 0.4 0.5 0.6
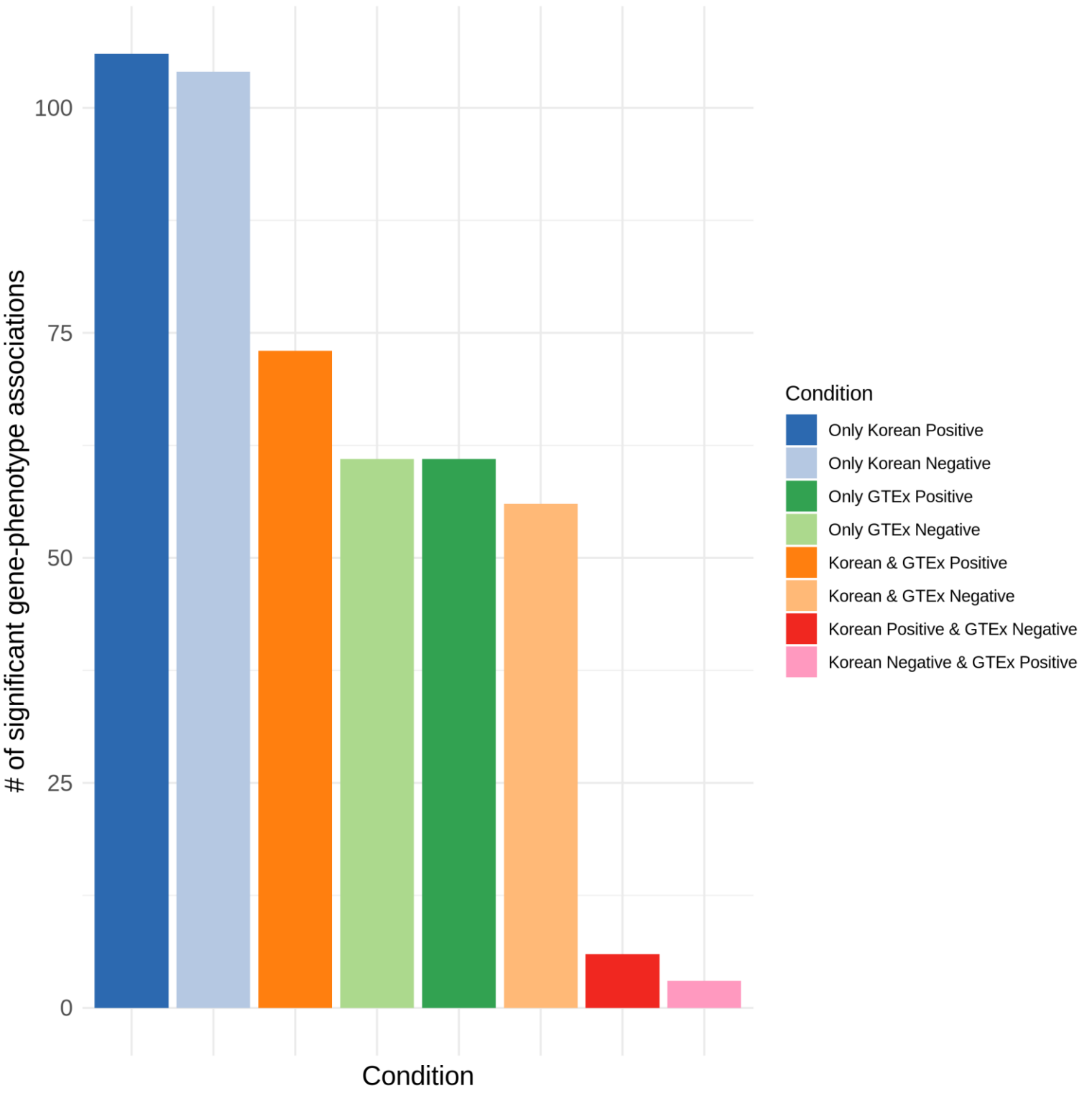
$AF_{eas} - AF_{nfe}$

Supplementary Figure 2. Correlation of GTEx-based predicted gene expression and Korean-based predicted gene expression

Supplementary Figure 3. Comparing the number of significant gene-phenotype association between GTEx-based and Korean-based GReX model

Supplementary Figure 4. Comparing TWAS Z-score between GTEx and Korean-based model (intersected genes)

Supplementary Figure 5. Comparing TWAS Z-scores between GTEx and Korean-based model (intersected genes)