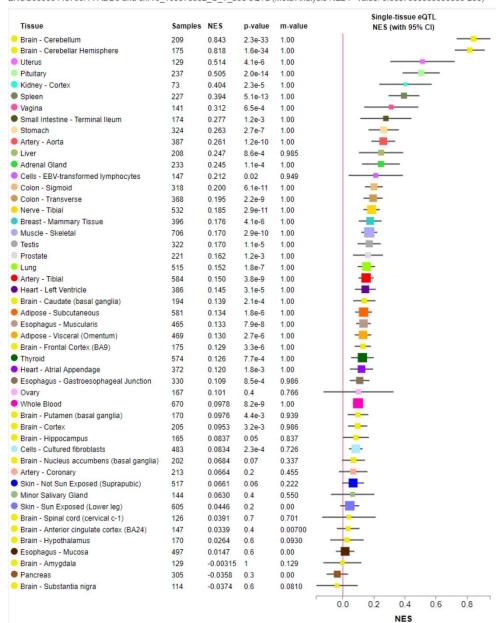
## **SUPPLEMENTARY FIGURES**

## Multi-tissue eQTL Comparison •

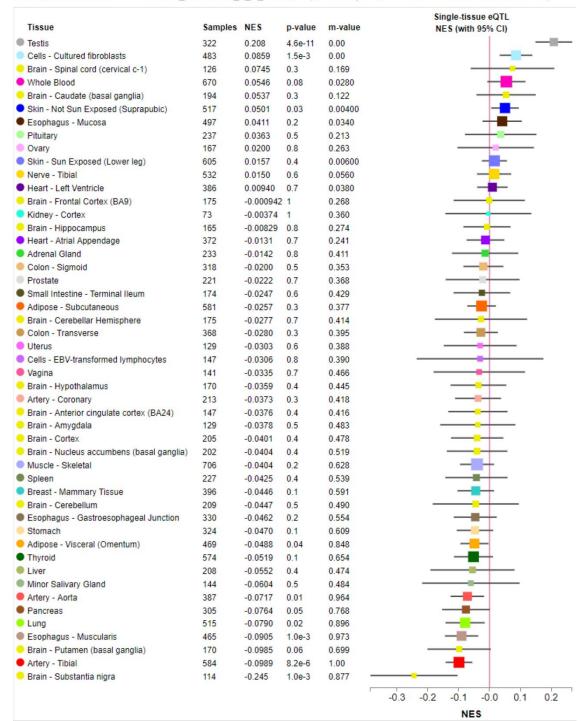
ENSG00000148700.14 ADD3 and chr10\_109975992\_C\_T\_b38 eQTL (Meta Analysis RE2 P-Value: 3.668709999999998e-253)



**Supplementary Figure 1. Multi-tissue eQTL plot for rs17095355 on** *ADD3* **expression.** The plot was based on genotype and transcriptome data from the GTEx Analysis Release V8 (dbGaP Accession phs000424.v8.p2). The modeled allele is rs17095355 risk allele T.

## Multi-tissue eQTL Comparison •

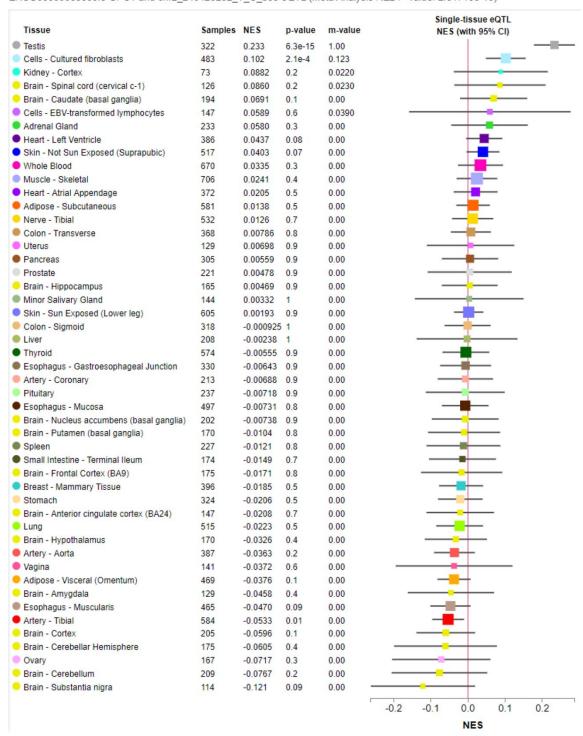
ENSG00000063660.8 GPC1 and chr2\_240431648\_T\_C\_b38 eQTL (Meta Analysis RE2 P-Value: 5.589559999999999-16)



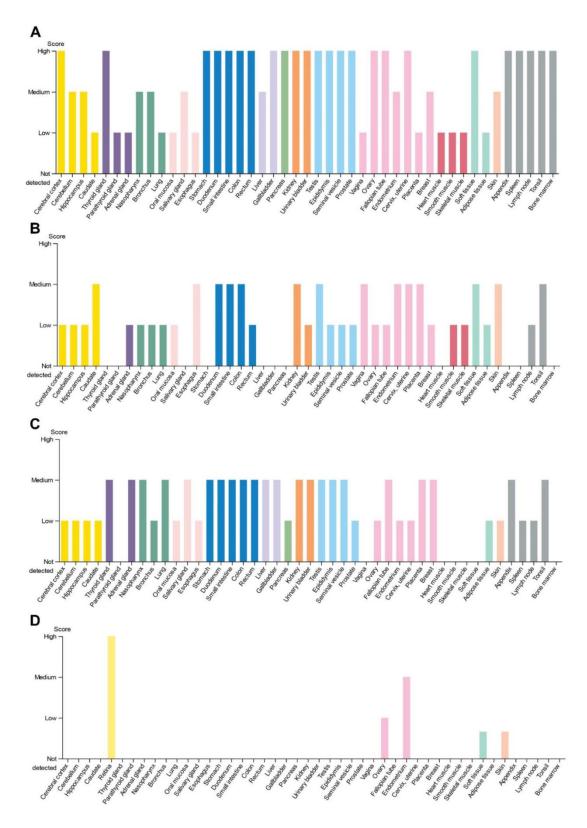
**Supplementary Figure 2. Multi-tissue eQTL plot for rs6707262 on** *GPC1* **expression.** The plot was based on genotype and transcriptome data from the GTEx Analysis Release V8 (dbGaP Accession phs000424.v8.p2). The modeled allele is rs6707262 risk allele G.

## Multi-tissue eQTL Comparison 6

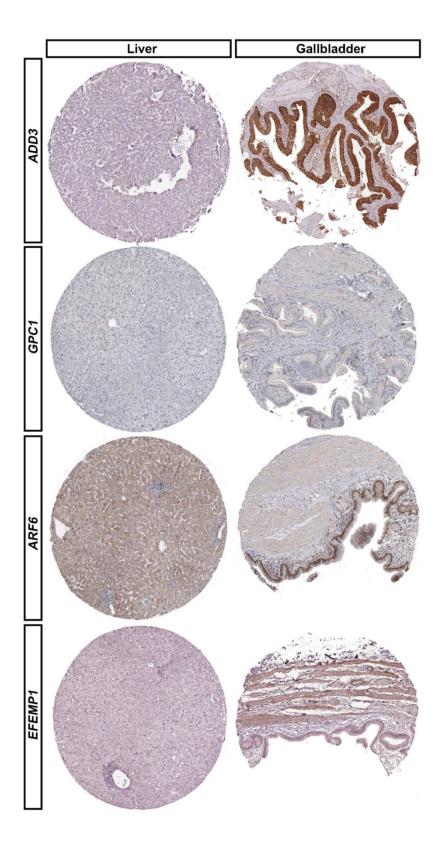
ENSG00000063660.8 GPC1 and chr2\_240423252\_T\_C\_b38 eQTL (Meta Analysis RE2 P-Value: 2.61716e-10)



**Supplementary Figure 3. Multi-tissue eQTL plot for rs6750380 on** *GPC1* **expression.** The plot was based on genotype and transcriptome data from the GTEx Analysis Release V8 (dbGaP Accession phs000424.v8.p2). The modeled allele is rs6750380 risk allele G.



**Supplementary Figure 4. The expression of** *ADD3, GPC1, ARF6* **and** *EFEMP1* **in human tissues. (A–D)** stand for *ADD3, GPC1, ARF6* and *EFEMP1* expression respectively in human tissues from THE HUMAN PROTEIN ATLAS (<a href="https://www.proteinatlas.org/">https://www.proteinatlas.org/</a>). The vertical axis indicates the expression level of the gene in each tissue.



Supplementary Figure 5. Immunohistochemistry analysis of *ADD3*, *GPC1*, *ARF6* and *EFEMP1* in adult human liver and gallbladder tissues from THE HUMAN PROTEIN ATLAS database (<a href="https://www.proteinatlas.org/">https://www.proteinatlas.org/</a>).