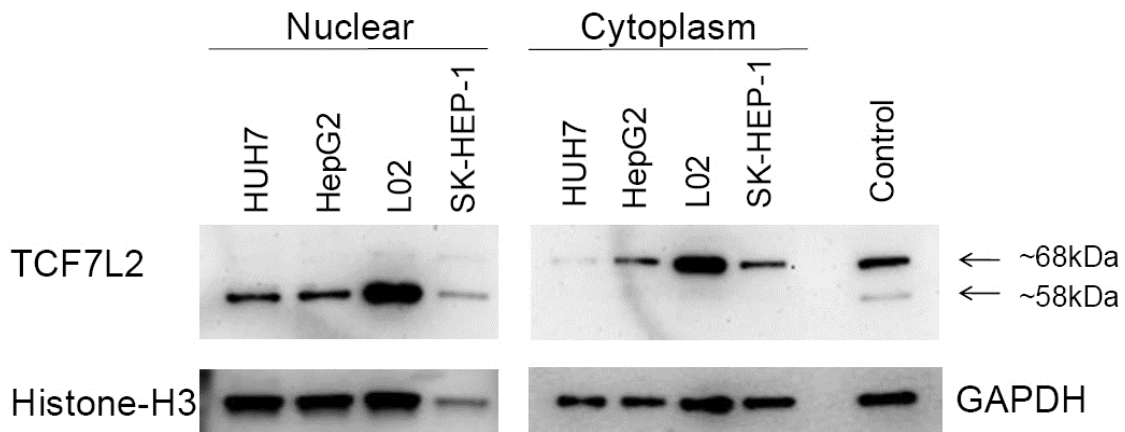
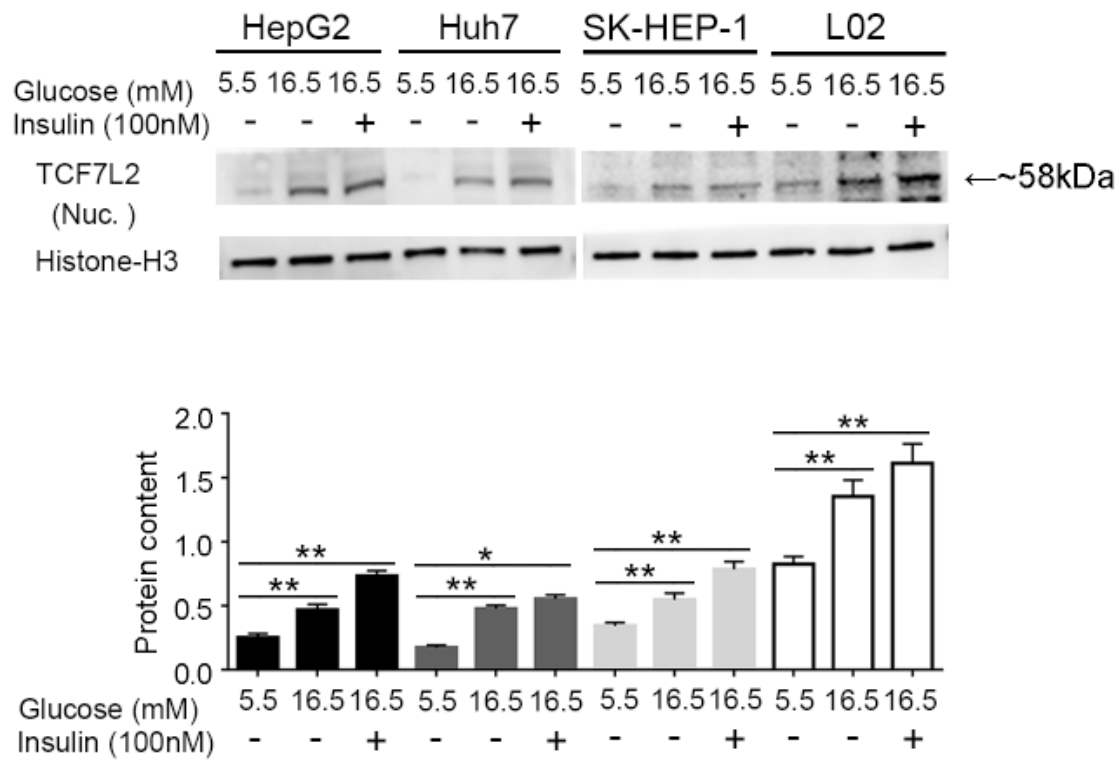


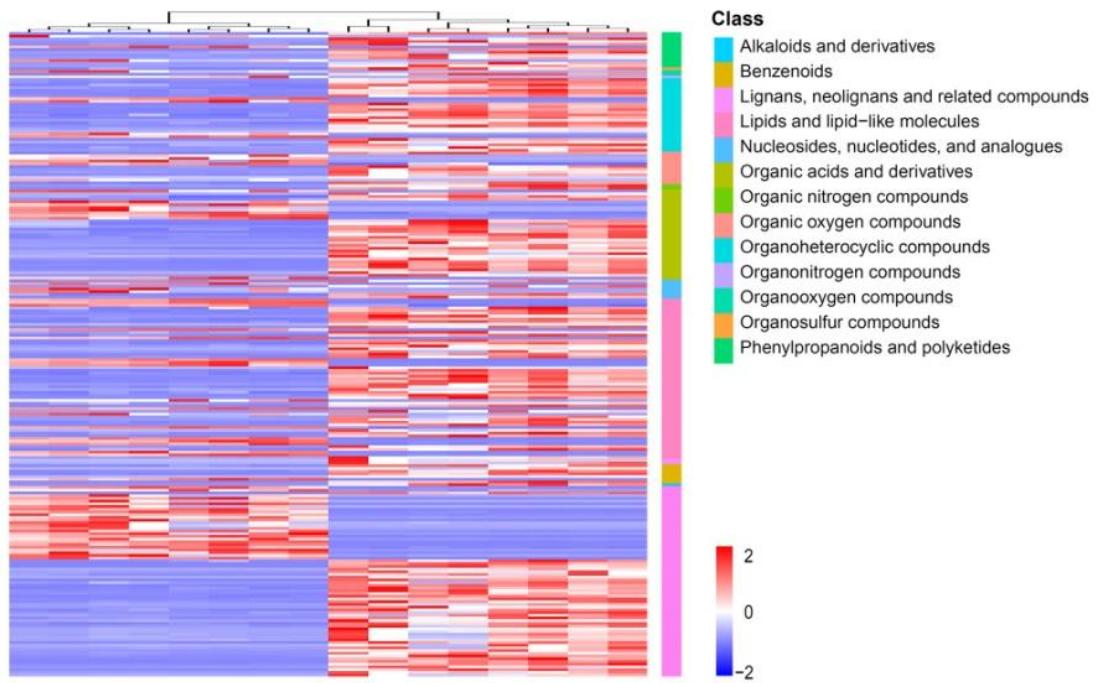
SUPPLEMENTARY FIGURES



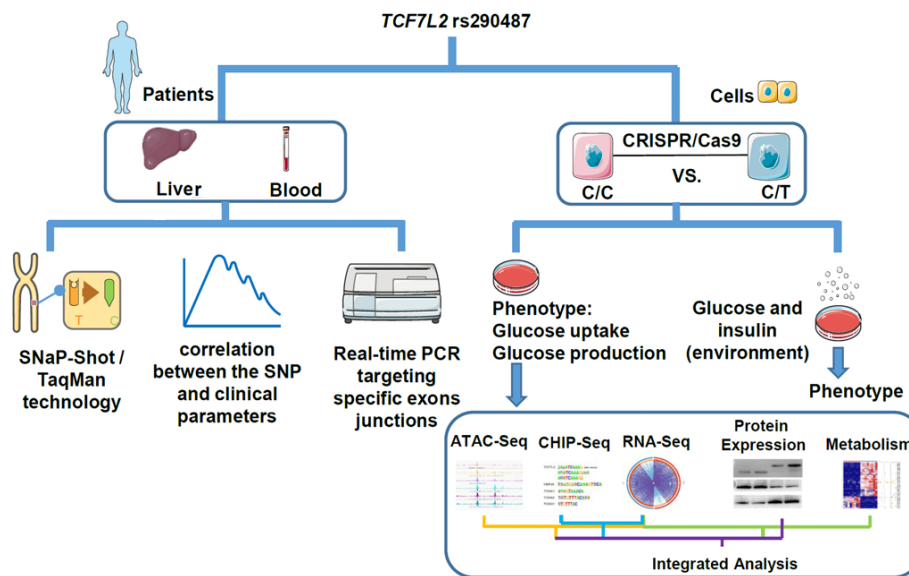
Supplementary Figure 1. TCF7L2 protein products in human liver cell lines. TCF7L2 protein products in the nuclear and cytoplasm of 4 human liver cell lines (HUH7, HepG2, Lo2, and SK-HEP-1). The total protein of PLC-PRF-5 cells was used as a positive control.



Supplementary Figure 2. TCF7L2 nuclear protein contents were increased by high glucose and insulin treatment in liver cell lines. **P<0.01.



Supplementary Figure 3. Heatmap showing the classification of differential expressed metabolites (Variable Importance in the Projection >2, fold change > 5, $P < 0.05$) between C/C- and C/T-cells.



Supplementary Figure 4. A workflow showing the study design and experiments which were performed.