Supplementary Materials

Enriched alternative splicing in islets of diabetes-susceptible mice

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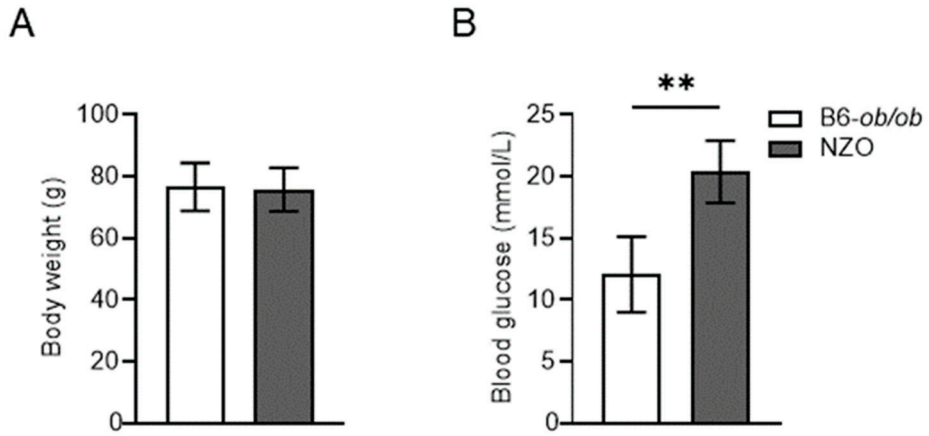
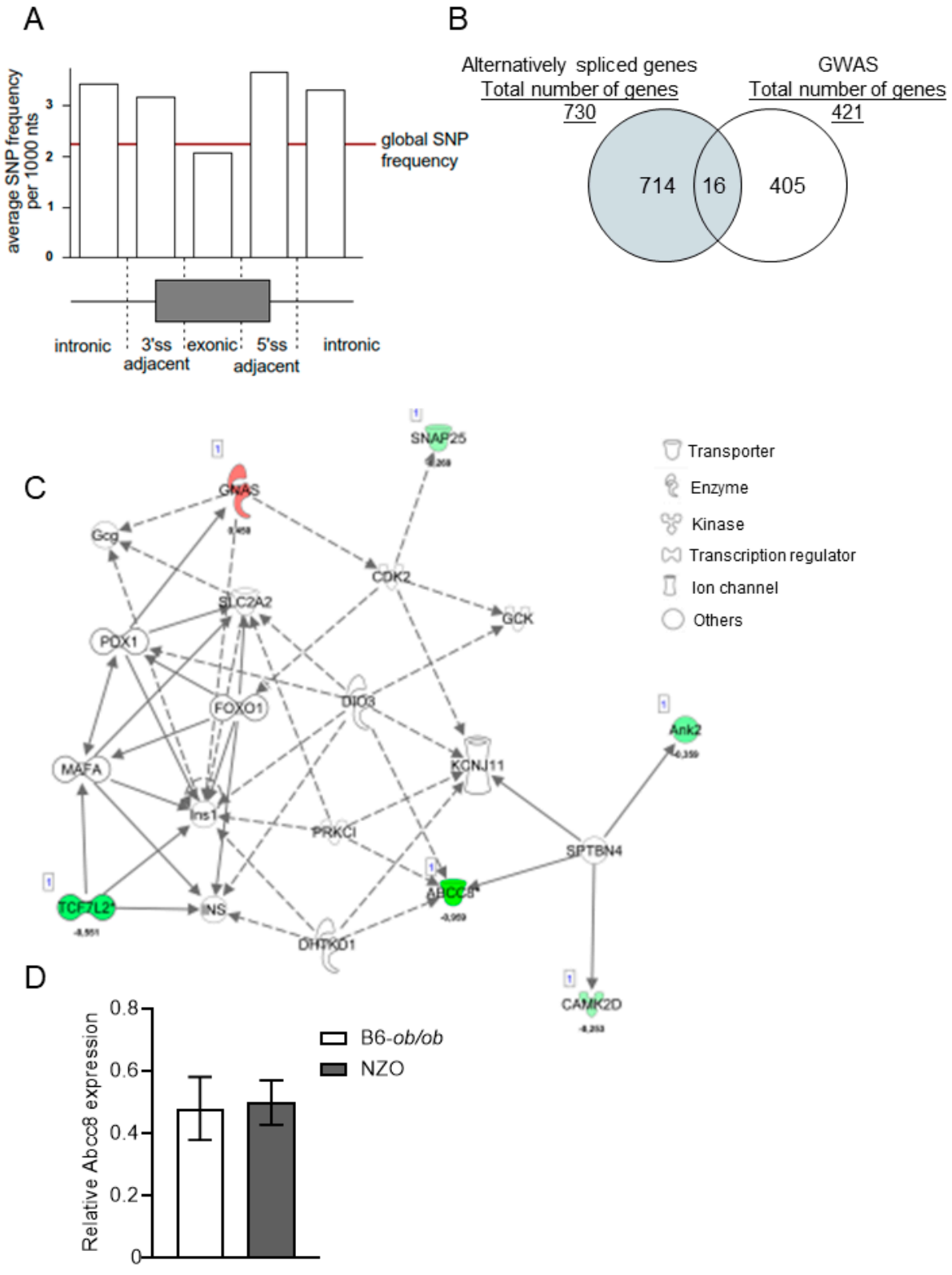


Supplemental Figure S1. A Body weight of B6-*ob*/*ob* and NZO mice at the day of sacrifice (age of 18 weeks). **B** Blood glucose levels of B6-*ob*/*ob* and NZO mice at the day of sacrifice. Data is shown as mean ± SD from 6 mice per genotype. * $p \leq 0.05$, student's t-test with Welch's correction.



Supplemental Figure S2. A SNP frequency at indicated positions adjacent to alternative exons. Red line represents global SNP frequency. **B** Venn diagram showing the overlay of differentially spliced genes in islets of diabetes susceptible mice and human T2D genes identified by GWAS. **C** Network of genes with alternatively spliced cassette exons generated by Ingenuity Pathway Analysis (IPA). Green = negative ΔPSI meaning more exon skipping in islets from NZO mice, red = positive ΔPSI. **D** Relative expression of *Abcc8* in islets from male B6-*ob*/*ob* and NZO mice treated as described in Figure 1A (n = 4). Data is shown as mean ± SD, * $p \leq 0.05$, student's t-test with Welch's correction.