

Description of Additional Supplementary Files

Supplementary Data 1. β -cell GRN edges with 80% confidence threshold.

Supplementary Data 2. β -cell module memberships of the genes.

Supplementary Data 3. GO enrichment analysis of modules from β -cells. Related to word clouds in Fig. 4D.

Supplementary Data 4. Phenotype annotation of the β -cells modules based on the two-sided t-test between genotypes. Related to pattern specific heatmaps in Fig. 4D.

Supplementary Data 5. Detailed information for selected modules, showing GO enrichment terms, phenotype annotation, overlap with top regulators and other module statistics.

Supplementary Data 6. Network and module statistics of genes shown in Fig. 3.

Supplementary Data 7. α -cell GRN with 80% confidence threshold.

Supplementary Data 8. Network statistics table for α - and β -cell GRNs with and without 80% threshold.

Supplementary Data 9. α -cell module memberships of the genes.

Supplementary Data 10. Phenotype annotation of the α -cell modules based on the t-test between genotypes. Related to pattern specific heatmap Extended Data Fig. 6.

Supplementary Data 11. GO enrichment analysis of modules from α -cells.

Supplementary Data 12. Module membership statistics of top regulators from α - and β -cells. Top regulators are defined based on the difference in predictive power of the regulators in both cell types.