

Legends to Supplemental Tables

Supplemental Table 1. Human-mouse ECRs identified in the comparative genomic analysis of the *SIMI* locus.

Supplemental Table 2. The 17 ECRs selected for zebrafish enhancer assays.

Supplemental Table 3. Results for SCE zebrafish enhancer assays during developmental time points.

Supplemental Table 4. Results for SCE zebrafish enhancer assays during month time points.

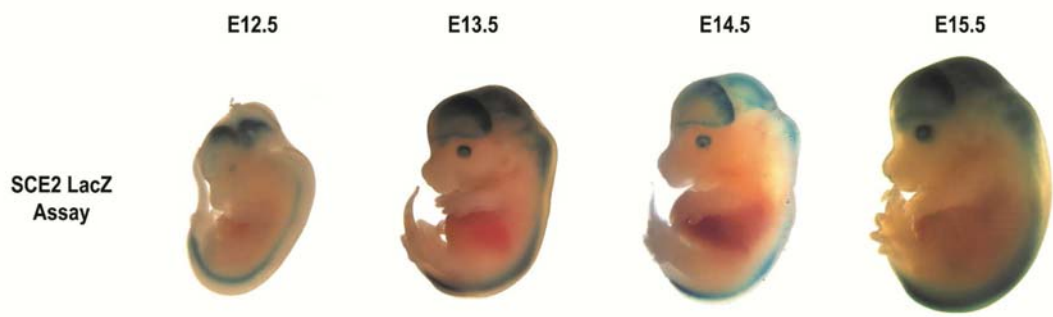
Supplemental Table 5. SCE2 deletion series primers.

Supplemental Table 6. SCE2 deletion series and obesity-associated variants zebrafish enhancer results.

Supplemental Table 7. SCE2 1000 Genomes sequencing analysis.

Supplemental Figure 1. SCE2 LacZ enhancer assay across developmental time points: E12.5-E15.5.

Supplemental Figure 2. SCE8 enhancer assay (E12.5). Three out of six mice exhibited consistent midbrain enhancer activity as reflected by LacZ staining.



SCE8

