

Description of Additional Supplementary Files

Supplementary Data 1. Significantly differentially expressed genes (DEGs) in PIII of *Ctnnb1*^{OE-SEC} mice compared to *Ctnnb1*^{WT} controls.

Genes displayed are those significantly up or down regulated in PIII of *Ctnnb1*^{OE-SEC} compared to *Ctnnb1*^{WT} controls (FC > |1|). Adjusted p-values were calculated for the differences of means of log2 of expressions values between PIII of *Ctnnb1*^{OE-SEC} mice and *Ctnnb1*^{WT}. OneWay-ANOVA was performed to identify DEGs.

Supplementary Data 2. Significantly differentially expressed genes (DEGs) in PIV of *Ctnnb1*^{OE-SEC} mice compared to *Ctnnb1*^{WT} controls.

Genes displayed are those significantly up or down regulated in PIV of *Ctnnb1*^{OE-SEC} compared to *Ctnnb1*^{WT} controls (FC > |1|). Adjusted p-values were calculated for the differences of means of log2 of expressions values between PIV of *Ctnnb1*^{OE-SEC} mice and *Ctnnb1*^{WT}. OneWay-ANOVA was performed to identify DEGs.