

Supplementary Data Legends

File Name: Supplementary Data 1

Description: Patient-derived iPSC line details.

File Name: Supplementary Data 2

Description: Validation and characterization of patient derived iPSCs. The overall characterization details for each iPSC line and clone and RNA-sequencing of each iPSC line, qRT-PCR of the trilineage analysis and neural differentiation assays, and RNA-sequencings of each iPSC line as a retinal organoid at day 45 of retinal differentiation.

File Name: Supplementary Data 3

Description: Single nucleotide variants, structural variants, and indels identified from whole genome sequence analysis of iPSC clones and patient germline.

File Name: Supplementary Data 4

Description: Growth of retinoblastoma from retinal organoids. Germline RB1 mutations in patient tumor and iPSC lines, somatic mutations in organoid derived tumors and reference retinoblastomas. QRT-PCR and RNA-sequencing of retinal organoid derived tumors.

File Name: Supplementary Data 5

Description: Differential DNA methylation between retinal organoids and retinoblastoma.

File Name: Supplementary Data 6

Description: Overall and individual summary of cell type distribution for single cell RNA-sequencing data.