

Supplementary Figures

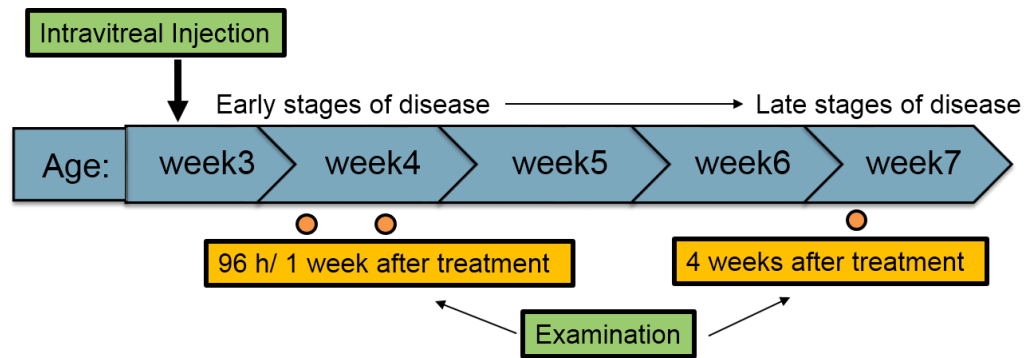


Figure S1. Strategy of treatment

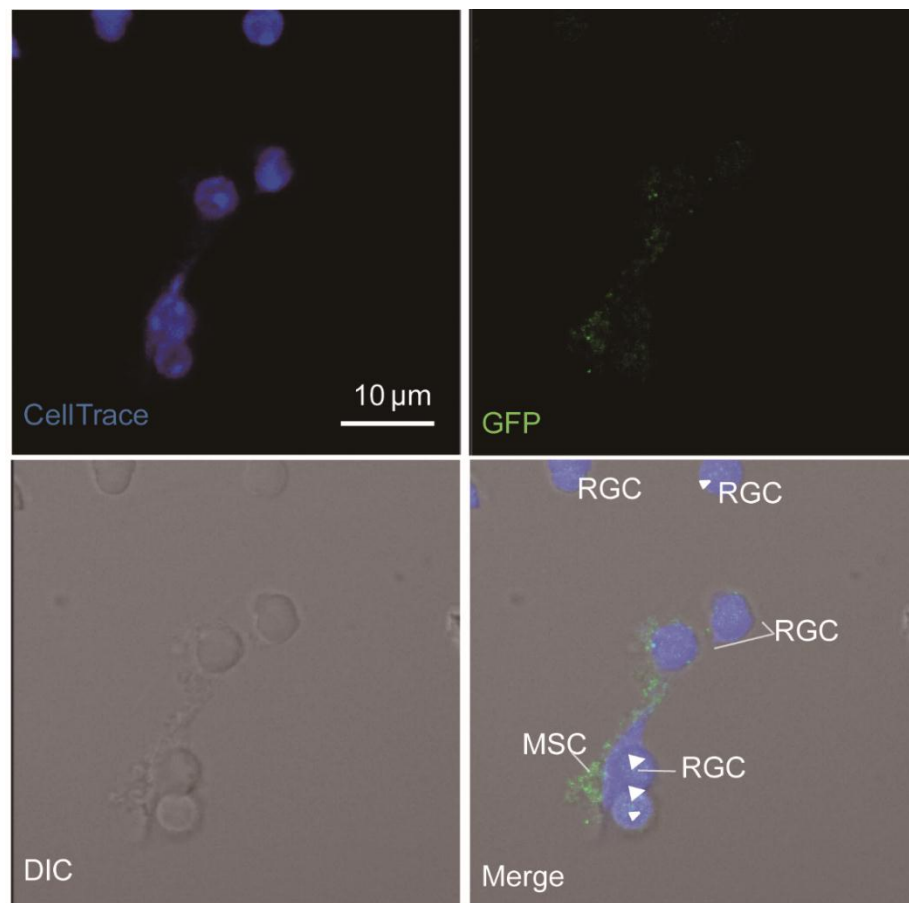


Figure S2. Co-culture iPSC-MSCs and RGCs *in vitro*

iPSC-MSCs were labeled with LV-mito-GFP. RGCs were labeled with CellTrace Violet.

Co-cultivation of iPSC-MSCs and RGCs for 24 hrs. Image shown that LV-mito-GFP positive mitochondria were detected within RGCs.

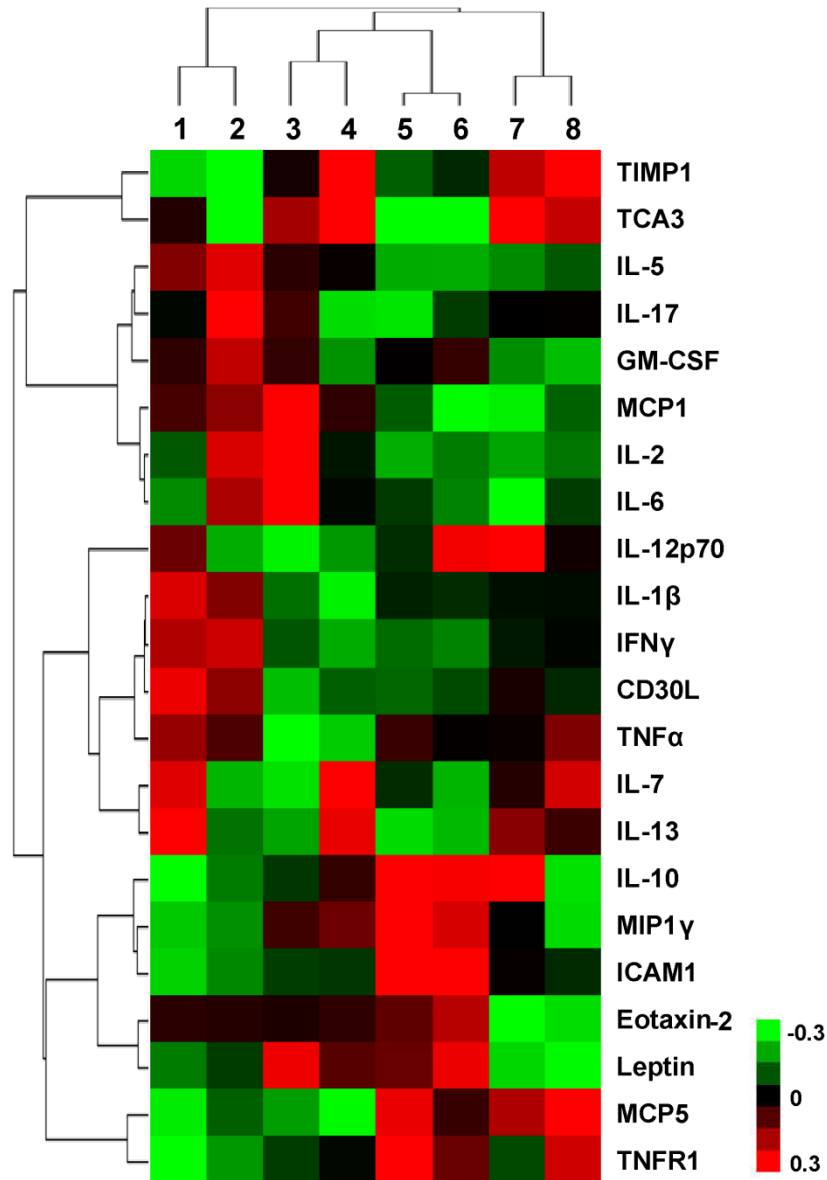


Figure S3 Cytokine array and hierarchical clustering analysis of *Ndufs4* Mice

A heatmap showing fold-changes of cytokine concentration in whole retina under different conditions with hierarchical clustering analysis at 1 week and 4 weeks post injection. Over- and under-expressed proteins are indicated by red and green,

respectively.

Panels 1: 1 week (KO+PBS) / (WT+PBS);

Panels 2: 1 week (KO+iPSC-MSR) / (KO+PBS);

Panels 3: 1 week (KO+iPSC-MSR) / (KO+PBS);

Panels 4: 1 week (KO+iPSC-MSR) / KO+iPSC-MSR(R);

Panels 5: 4 weeks (KO+PBS) / (WT+PBS);

Panels 6: 4 weeks (KO+iPSC-MSR) / (KO+PBS);

Panels 7: 4 weeks (KO+iPSC-MSR) / (KO+PBS);

Panels 8: 4 weeks (KO+iPSC-MSR) / (KO+iPSC-MSR(R)).