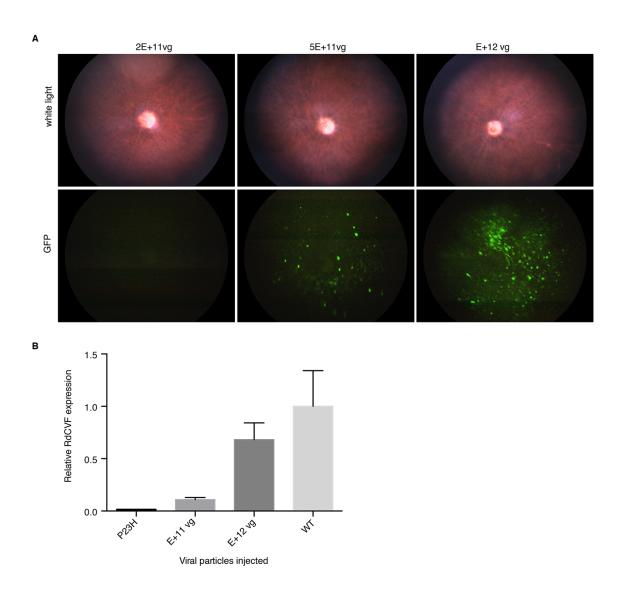
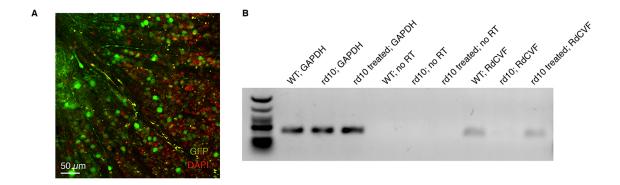


Supplemental Figure 1. Onset of transgene expression. (A) Seven days after systemic injection of AAV92YF-scCAG-GFP, native expression of the transgene is apparent in flatmounted retinas (n=4). (B) One week after intravitreal injection of 7m8-scCAG-GFP, GFP expression is visible in fundus images (n=5).



Supplemental Figure 2. Dose response curve of systemically injected AAV92YF. (A) Fundus imaging illustrating GFP expression one month after injection of 2E+11, 5E+11, or E+12 viral particles. (B) qRT-PCR reveals that 4 months after treatment in rd10 mice, injection of E+11 particles results in RdCVF levels of $11 \pm 2\%$ of WT, while injection of E+12 particles results in RdCVF levels of $68 \pm 16\%$ of WT. Data represent 5 biological replicates.



Supplemental Figure 3. Duration of transgene expression.

(A) One year after systemic injection of AAV92YF-scCAG-GFP, native GFP expression is apparent in retinal flatmounts (n=5). (B) RT-PCR from n=5 pooled retinas shows that one year after systemic injection of AAV92YF-scCAG-RdCVF, transgene expression of RdCVF persists.