Supplementary Figure Legends

Supplementary figure 1

rAAV2-GFP titer used in this study.
Supplementary figure 2.

Time course of in vivo GFP expression in the fundus of Wistar rats after intravitreal injection of rAA2-GFP (right eye, 8 µL).

The intensity of GFP expression increased over time in all five rats. Weak GFP expression was identified in rat 2 on day 2. Significant GFP expression was noticed in all rats after day 4, with the
peak seen on day 13. A fluorescence block (large black spot) in rat 3 and 4 was caused by crystalline lens opacity induced by lens trauma during intravitreal injection. In rat 1, the nerve fiber layer was also visualized by GFP expression. In Rat 5, a hyperfluorescence spot (white arrow) in the superior area was caused by fluorescence staining at the injection site.
Supplementary figure 3.

In vivo retinal imaging of control rats (n=5) after intravitreal vehicle injection (right eye, 8 µL).

Different levels of fluorescence were identified among the animals in the control group. In rat 6, no hyperfluorescence spots were identified until day 13. Among four control rats (7–10), hyperfluorescence spots were identified in a limited area starting on day 2 or 4, and the intensity and area of hyperfluorescence remained consistent until day 13.