Figure S1  Retinal phenotype of each strain.

C57BL/6, BALB/c, and B6129SF2 mice show normal retinal structure. GCL, ganglion cell layer; INL, inner nuclear layer; ONL, outer nuclear layer; RPE, retinal pigment epithelium.
**Figure S2**  Purity of nuclear extraction.

Nuclear AIF was evaluated by nuclear extraction followed by Western blot analysis. TBP, β-tubulin, and VDAC were monitored as markers for the purity of the nuclear and cytoplasmic fractions. BL6, C57BL/6; BALB, BALB/c; B6129, B6129SF2; RD, retinal detachment.
Figure S3  Glial fibrillary acidic protein (GFAP) expression in the retina.

Glial fibrillary acidic protein (GFAP) immunoreactivity in the retina before and 24 hours after RD (n=6 each). Untreated eyes showed GFAP expression mainly in the inner margin of the retina with a few processes toward the outer retina. Some positive signal was also observed in the inner margin of the outer plexiform layer. GFAP immunoreactivity was markedly increased after RD, and some GFAP-positive processes were elongated into the ONL. The pattern of GFAP expression was similar among the three strains either before or after RD. Scale bar, 50 µm. UT, untreated; RD, retinal detachment; GCL, ganglion cell layer; INL, inner nuclear layer; ONL, outer nuclear layer.