

Resource Summary Report

Generated by [NIF](#) on Sep 2, 2026

B6.129S6(Cg)-Rho^{tm1.1Kpal/J}

RRID:IMSR_JAX:017628

Type: Organism

Proper Citation

RRID:IMSR_JAX:017628

Organism Information

URL: <https://www.jax.org/strain/017628>

Proper Citation: RRID:IMSR_JAX:017628

Description: Mus musculus with name B6.129S6(Cg)-Rho^{tm1.1Kpal/J} from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Rho/J

Notes: gene symbol note: rhodopsin; mutant strain|congenic strain: Rho

Affected Gene: rhodopsin

Genomic Alteration: targeted mutation 1.1; Krzysztof Palczewski

Catalog Number: JAX:017628

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S6(Cg)-Rho^{tm1.1Kpal/J}

Record Creation Time: 20250513T053733+0000

Record Last Update: 20260829T045033+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6(Cg)-Rho^{tm1.1Kpal/J}.

No alerts have been found for B6.129S6(Cg)-Rho^{tm1.1Kpal/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 23 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Vainionpää K, et al. (2026) Female sex is a risk factor for exacerbated lipid peroxidation and disease in murine retinitis pigmentosa. *Redox biology*, 90, 103987.

Attaway CA, et al. (2026) Enhancing Experience-Dependent Plasticity Accelerates Vision Loss in a Murine Model of Retinitis Pigmentosa. *Investigative ophthalmology & visual science*, 67(3), 15.

Shen N, et al. (2026) A genome-wide in vivo CRISPR screen identifies neuroprotective strategies in the mouse and human retina. *Neuron*.

Azam M, et al. (2026) Inhibition of galanin receptor 3 slows down retina degeneration in retinitis pigmentosa through modulation of inflammatory and oxidative stress response. *Scientific reports*, 16(1).

Rowe AA, et al. (2025) Female sex hormones exacerbate retinal neurodegeneration. *Science advances*, 11(15), eadr6211.

Ortega JT, et al. (2025) Discovery of non-retinoid compounds that suppress the pathogenic effects of misfolded rhodopsin in a mouse model of retinitis pigmentosa. *PLoS biology*, 23(1), e3002932.

Attaway CA, et al. (2025) Enhancing experience-dependent plasticity accelerates vision loss in a murine model of retinitis pigmentosa. *bioRxiv : the preprint server for biology*.

Shekhar S, et al. (2025) Sensory quiescence induces a cell-non-autonomous integrated stress response curbed by condensate formation of the ATF4 and XRP1 effectors. *Nature communications*, 16(1), 252.

Shen N, et al. (2025) A genome-wide in vivo CRISPR screen identifies neuroprotective strategies in the mouse and human retina. *bioRxiv : the preprint server for biology*.

Rowe AA, et al. (2024) Female sex hormones exacerbate retinal neurodegeneration. *bioRxiv : the preprint server for biology*.

Leinonen H, et al. (2024) A combination treatment based on drug repurposing demonstrates mutation-agnostic efficacy in pre-clinical retinopathy models. *Nature communications*, 15(1), 5943.

Ortega JT, et al. (2023) Galanin receptor 3 - A new pharmacological target in retina degeneration. *Pharmacological research*, 188, 106675.

Riedmayr LM, et al. (2023) mRNA trans-splicing dual AAV vectors for (epi)genome editing and gene therapy. *Nature communications*, 14(1), 6578.

Katada Y, et al. (2023) Highly sensitive visual restoration and protection via ectopic expression of chimeric rhodopsin in mice. *iScience*, 26(10), 107716.

Shekhar S, et al. (2023) Visual impairment cell non-autonomously dysregulates brain-wide proteostasis. *bioRxiv : the preprint server for biology*.

Ortega JT, et al. (2022) Chromenone derivatives as novel pharmacological chaperones for retinitis pigmentosa-linked rod opsin mutants. *Human molecular genetics*, 31(20), 3439.

Ortega JT, et al. (2022) Flavonoids improve the stability and function of P23H rhodopsin slowing down the progression of retinitis pigmentosa in mice. *Journal of neuroscience research*, 100(4), 1063.

Li S, et al. (2021) Nr2e3 is a genetic modifier that rescues retinal degeneration and promotes homeostasis in multiple models of retinitis pigmentosa. *Gene therapy*, 28(5), 223.

Orlans HO, et al. (2020) Dynamic in vivo quantification of rod photoreceptor degeneration using fluorescent reporter mouse models of retinitis pigmentosa. *Experimental eye research*, 190, 107895.

Liu X, et al. (2020) Paracrine effects of intraocularly implanted cells on degenerating retinas in mice. *Stem cell research & therapy*, 11(1), 142.