

Resource Summary Report

Generated by [dkNET](#) on Jul 30, 2026

RCS- p^+ /LavRrrc

RRID:RRRC_00315

Type: Organism

Proper Citation

RRID:RRRC_00315

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=1358259

Proper Citation: RRID:RRRC_00315

Description: Rattus norvegicus with name RCS- p^+ /LavRrrc from RGD.

Species: Rattus norvegicus

Notes: This strain has homozygous wild type at the pink eye (p^+) locus and homozygous for a deletion in the Mertk gene. Developed by intercrossing (brother x sister) two black-eyed $p/+$ rats from the RCS- $p/+$ strain. The black-eyed animals were tested for homozygous p locus and then backcrossed to the parental strain. [Retinal Degeneration Rat Model Resource](#) , [Rat Resource and Research Center](#)

Catalog Number: 00315

Background: congenic

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Live Animals; Cryopreserved Embryo; Cryopreserved Sperm (as of 2018-11-30)

Alternate IDs: RGD_1358259, 1358259, RRRC_315, RRRC_0315, RRRC_00315

Organism Name: RCS- p^+ /LavRrrc

Record Creation Time: 20230607T202005+0000

Record Last Update: 20260725T094201+0000

Ratings and Alerts

No rating or validation information has been found for RCS- p^+ /LavRrrc .

No alerts have been found for RCS- p^+ /LavRrrc .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Jung M, et al. (2025) Intraretinal Electrophysiology and Resistivity Profiles of WT and RCS Rat Retina. Sensors (Basel, Switzerland), 25(12).

Bhuckory MB, et al. (2025) Enhancing prosthetic vision by upgrade of a subretinal photovoltaic implant in situ. Nature communications, 16(1), 2820.

Soundararajan L, et al. (2025) Allogeneic RPE cell suspension manufactured at scale demonstrating preclinical safety and efficacy led to IND approval. NPJ Regenerative medicine, 10(1), 19.

, et al. (2025) Late emergence of pathological oscillatory activity in the retina of the Retinitis pigmentosa model RCS (Royal College of Surgeons) rat. PloS one, 20(5), e0324345.

Bryda EC, et al. (2019) Letter to the editor announcing the availability of RCS and transgenic rats with P23H and S334ter rhodopsin mutations with inherited retinal degenerations. Experimental eye research, 178, 176.

Lorach H, et al. (2018) Long-term Rescue of Photoreceptors in a Rodent Model of Retinitis Pigmentosa Associated with MERTK Mutation. Scientific reports, 8(1), 11312.