

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

SD-Tg(Rho-S334X)3LavRrrc

RRID:RRRC_00643

Type: Organism

Proper Citation

RRID:RRRC_00643

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=6482645

Proper Citation: RRID:RRRC_00643

Description: Rattus norvegicus with name SD-Tg(Rho-S334X)3LavRrrc from RGD.

Species: Rattus norvegicus

Notes: This transgenic strain carries a mouse rhodopsin gene that bears a termination codon at residue 334, which encodes a C-terminal truncated rhodopsin protein. Submitted to Rat Resource & Research Center [Rat Resource and Research Center](#)

Catalog Number: 00643

Background: transgenic

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Cryopreserved Embryo; Cryopreserved Sperm (as of 2017-08-17)

Alternate IDs: RGD_6482645, 6482645, RRRC_643, RRRC_0643, RRRC_00643

Organism Name: SD-Tg(Rho-S334X)3LavRrrc

Record Creation Time: 20230607T202007+0000

Record Last Update: 20260801T100214+0000

Ratings and Alerts

No rating or validation information has been found for SD-Tg(Rho-S334X)3LavRrrc .

No alerts have been found for SD-Tg(Rho-S334X)3LavRrc .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Chandler LC, et al. (2025) RPE-specific MCT2 expression promotes cone survival in models of retinitis pigmentosa. Proceedings of the National Academy of Sciences of the United States of America, 122(14), e2421978122.

Kuwahara A, et al. (2019) Preconditioning the Initial State of Feeder-free Human Pluripotent Stem Cells Promotes Self-formation of Three-dimensional Retinal Tissue. Scientific reports, 9(1), 18936.

Tu HY, et al. (2019) Medium- to long-term survival and functional examination of human iPSC-derived retinas in rat and primate models of retinal degeneration. EBioMedicine, 39, 562.

LaVail MM, et al. (2018) Phenotypic characterization of P23H and S334ter rhodopsin transgenic rat models of inherited retinal degeneration. Experimental eye research, 167, 56.

Seiler MJ, et al. (2014) A new immunodeficient pigmented retinal degenerate rat strain to study transplantation of human cells without immunosuppression. Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie, 252(7), 1079.