

Resource Summary Report

Generated by [dkNET](#) on Sep 6, 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: 20260905T094651+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)3LavRrrc .

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](#) .

Men H, et al. (2026) Optimizing Rat In Vitro Fertilization for Rat Model Cryo-Resuscitation from Frozen-Thawed Sperm. *Biology*, 15(5).

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.