Resource Summary Report

Generated by kravitz2 on Aug 24, 2026

B6.Cg-Pde6b^{+} Tg(Rho-icre)1Ck/Boc

RRID:IMSR_JAX:015850
Type: Organism

Proper Citation

RRID:IMSR_JAX:015850

Organism Information

URL: https://www.jax.org/strain/015850

Proper Citation: RRID:IMSR_JAX:015850

Description: Mus musculus with name B6.Cg-Pde6b^{+} Tg(Rho-icre)1Ck/Boc from IMSR.

Species: Mus musculus

Synonyms: B6;SJL-Pde6b+> Tg(Rho-icre)1Ck/Boc. B6;SJL-Pde6b+> Tg(Rho-cre)1Ck/Boc

Notes: gene symbol note: rhodopsin|transgene insertion 1; Ching-Kang Chen||phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide; mutant stock: Rho|Tg(Rho-icre)1Ck||Pde6b

Affected Gene: rhodopsin|transgene insertion 1; Ching-Kang Chen||phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide

Genomic Alteration: transgene insertion 1; Ching-Kang Chen|wild type

Catalog Number: JAX:015850

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Pde6b^{+} Tg(Rho-icre)1Ck/Boc

Record Creation Time: 20250513T053728+0000

Record Last Update: 20260815T050640+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Pde6b^{+} Tg(Rho-icre)1Ck/Boc.

No alerts have been found for B6.Cg-Pde6b^{+} Tg(Rho-icre)1Ck/Boc.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Rueda EM, et al. (2026) Electron transport chain activity balances cell cycle progression and differentiation of retinal progenitor cells. Experimental eye research, 270, 111127.

Landowski M, et al. (2026) Mitofusins are required for specialized mitochondrial morphology and function of rod photoreceptor cells. Frontiers in cell and developmental biology, 14, 1724328.

Thoreson WB, et al. (2025) Rod Inputs Arrive at Horizontal Cell Somas in Mouse Retina Solely via Rod-Cone Coupling. eNeuro, 12(6).

Barta CL, et al. (2024) Retinal inputs that drive optomotor responses of mice under mesopic conditions. IBRO neuroscience reports, 17, 138.

Thoreson WB, et al. (2024) Rod inputs arrive at horizontal cell somas in mouse retina solely via rod-cone coupling. bioRxiv : the preprint server for biology.

Sladek AL, et al. (2023) Using optogenetics to dissect rod inputs to OFF ganglion cells in the mouse retina. Frontiers in ophthalmology, 3.

Thorson MT, et al. (2023) Nrl:CreERT2 mouse model to induce mosaic gene expression in rod photoreceptors. Frontiers in molecular neuroscience, 16, 1161127.

Hyde LF, et al. (2022) A Dpagt1 Missense Variant Causes Degenerative Retinopathy without Myasthenic Syndrome in Mice. International journal of molecular sciences, 23(19).

Lankford CK, et al. (2022) Cone-Driven Retinal Responses Are Shaped by Rod But Not Cone HCN1. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(21), 4231.

Mesnard CS, et al. (2022) Synaptotagmins 1 and 7 in vesicle release from rods of mouse retina. Experimental eye research, 225, 109279.

Burger CA, et al. (2021) LKB1 and AMPK instruct cone nuclear position to modify visual function. Cell reports, 34(5), 108698.

Care RA, et al. (2020) Mature Retina Compensates Functionally for Partial Loss of Rod Photoreceptors. Cell reports, 31(10), 107730.

Grassmeyer JJ, et al. (2019) Ca2+ sensor synaptotagmin-1 mediates exocytosis in mammalian photoreceptors. eLife, 8.

Alves CH, et al. (2019) CRB2 Loss in Rod Photoreceptors Is Associated with Progressive Loss of Retinal Contrast Sensitivity. International journal of molecular sciences, 20(17).

Sarin S, et al. (2018) Role for Wnt Signaling in Retinal Neuropil Development: Analysis via RNA-Seq and In??Vivo Somatic CRISPR Mutagenesis. Neuron, 98(1), 109.