

Resource Summary Report

Generated by [dkNET](#) on Sep 14, 2026

STOCK Tg(Opn3-EGFP)JY3Gsat/Mmucd

RRID:MMRRC_030727-UCD

Type: Organism

Proper Citation

RRID:MMRRC_030727-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=30727

Proper Citation: RRID:MMRRC_030727-UCD

Description: Mus musculus with name STOCK Tg(Opn3-EGFP)JY3Gsat/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: Cell Biology, Developmental Biology, Neurobiology, Research Tools; Mutation Type: Transgenic ; Collection: GENSAT

Affected Gene: EGFP|Opn3|

Catalog Number: 030727-UCD

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:14586460](#)

Alternate IDs: MMRRC_30727-UCD, MMRRC_030727, MMRRC_3727

Organism Name: STOCK Tg(Opn3-EGFP)JY3Gsat/Mmucd

Record Creation Time: 20230308T055120+0000

Record Last Update: 20260912T134742+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Opn3-EGFP)JY3Gsat/Mmucd.

No alerts have been found for STOCK Tg(Opn3-EGFP)JY3Gsat/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Karthikeyan R, et al. (2025) Opposing expression pattern of opsin 3 and opsin 5 in the developing and adult nasal epithelium. Chemical senses, 50.

Davies WIL, et al. (2021) Distinct Opsin 3 (Opn3) Expression in the Developing Nervous System during Mammalian Embryogenesis. eNeuro, 8(5).

Dan W, et al. (2021) Light-Mediated Inhibition of Colonic Smooth Muscle Constriction and Colonic Motility via Opsin 3. Frontiers in physiology, 12, 744294.

Olinski LE, et al. (2020) Endogenous Opsin 3 (OPN3) Protein Expression in the Adult Brain Using a Novel OPN3-mCherry Knock-In Mouse Model. eNeuro, 7(5).

Nayak G, et al. (2020) Adaptive Thermogenesis in Mice Is Enhanced by Opsin 3-Dependent Adipocyte Light Sensing. Cell reports, 30(3), 672.