Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 14, 2025

C57BL/6J-Tg(Thy1-GCaMP6f)GP5.5Dkim/J

RRID:IMSR_JAX:024276
Type: Organism

Proper Citation

RRID:IMSR_JAX:024276

Organism Information

URL: https://www.jax.org/strain/024276

Proper Citation: RRID:IMSR_JAX:024276

Description: Mus musculus with name C57BL/6J-Tg(Thy1-GCaMP6f)GP5.5Dkim/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6-Tg(Thy1-GCaMP6f)GP5.5Dkim/J

Notes: gene symbol note: transgene insertion GP5.5; Douglas Kim|Genetically encoded calcium indicator|thymus cell antigen 1; theta; coisogenic strain|mutant strain: Tg(Thy1-GCaMP6f)GP5.5Dkim|GCaMP|Thy1

Affected Gene: transgene insertion GP5.5; Douglas Kim|Genetically encoded calcium indicator|thymus cell antigen 1; theta

Genomic Alteration: transgene insertion GP5.5; Douglas Kim

Catalog Number: JAX:024276

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C57BL/6J-Tg(Thy1-GCaMP6f)GP5.5Dkim/J

Record Creation Time: 20250513T053750+0000

Record Last Update: 20250513T054013+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Tg(Thy1-GCaMP6f)GP5.5Dkim/J.

No alerts have been found for C57BL/6J-Tg(Thy1-GCaMP6f)GP5.5Dkim/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Young TR, et al. (2023) Thalamocortical control of cell-type specificity drives circuits for processing whisker-related information in mouse barrel cortex. Nature communications, 14(1), 6077.

McCullough CM, et al. (2022) GRINtrode: a neural implant for simultaneous two-photon imaging and extracellular electrophysiology in freely moving animals. Neurophotonics, 9(4), 045009.

Guan H, et al. (2022) Deep-learning two-photon fiberscopy for video-rate brain imaging in freely-behaving mice. Nature communications, 13(1), 1534.

Zemla R, et al. (2022) Task-selective place cells show behaviorally driven dynamics during learning and stability during memory recall. Cell reports, 41(8), 111700.

Jarzebowski P, et al. (2022) Different encoding of reward location in dorsal and intermediate hippocampus. Current biology : CB, 32(4), 834.

Matsuyama T, et al. (2021) Genetically engineered stem cell-derived retinal grafts for improved retinal reconstruction after transplantation. iScience, 24(8), 102866.

Grijseels DM, et al. (2021) Choice of method of place cell classification determines the population of cells identified. PLoS computational biology, 17(7), e1008835.

Yang F, et al. (2021) Mesoscopic Mapping of Ictal Neurovascular Coupling in Awake Behaving Mice Using Optical Spectroscopy and Genetically Encoded Calcium Indicators. Frontiers in neuroscience, 15, 704834.

Henschke JU, et al. (2021) Enhanced modulation of cell-type specific neuronal responses in mouse dorsal auditory field during locomotion. Cell calcium, 96, 102390.

Bale MR, et al. (2021) Sequence Learning Induces Selectivity to Multiple Task Parameters in Mouse Somatosensory Cortex. Current biology : CB, 31(3), 473.

Sun W, et al. (2021) Context value updating and multidimensional neuronal encoding in the retrosplenial cortex. Nature communications, 12(1), 6045.

Caccavano A, et al. (2020) Inhibitory Parvalbumin Basket Cell Activity is Selectively Reduced during Hippocampal Sharp Wave Ripples in a Mouse Model of Familial Alzheimer's Disease. The Journal of neuroscience : the official journal of the Society for Neuroscience, 40(26), 5116.

Gottschalk S, et al. (2019) Isolated Murine Brain Model for Large-Scale Optoacoustic Calcium Imaging. Frontiers in neuroscience, 13, 290.

Brier LM, et al. (2019) Separability of calcium slow waves and functional connectivity during wake, sleep, and anesthesia. Neurophotonics, 6(3), 035002.

Holz A, et al. (2019) Enhanced mGlu5 Signaling in Excitatory Neurons Promotes Rapid Antidepressant Effects via AMPA Receptor Activation. Neuron, 104(2), 338.

Mitra A, et al. (2018) Spontaneous Infra-slow Brain Activity Has Unique Spatiotemporal Dynamics and Laminar Structure. Neuron, 98(2), 297.

Allen WE, et al. (2017) Global Representations of Goal-Directed Behavior in Distinct Cell Types of Mouse Neocortex. Neuron, 94(4), 891.