

Resource Summary Report

Generated by T1D on Sep 22, 2026

C57BL/6J-Tg(Thy1-GCaMP6s)GP4.12Dkim/J

RRID:IMSR_JAX:025776

Type: Organism

Proper Citation

RRID:IMSR_JAX:025776

Organism Information

URL: <https://www.jax.org/strain/025776>

Proper Citation: RRID:IMSR_JAX:025776

Description: Mus musculus with name C57BL/6J-Tg(Thy1-GCaMP6s)GP4.12Dkim/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Genetically encoded calcium indicator|thymus cell antigen 1; theta|transgene insertion GP4.12; Douglas Kim; coisogenic strain|mutant strain: GCaMP|Thy1|Tg(Thy1-GCaMP6s)GP4.12Dkim

Affected Gene: Genetically encoded calcium indicator|thymus cell antigen 1; theta|transgene insertion GP4.12; Douglas Kim

Genomic Alteration: transgene insertion GP4.12; Douglas Kim

Catalog Number: JAX:025776

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C57BL/6J-Tg(Thy1-GCaMP6s)GP4.12Dkim/J

Record Creation Time: 20250513T053755+0000

Record Last Update: 20260919T054940+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Tg(Thy1-GCaMP6s)GP4.12Dkim/J.

No alerts have been found for C57BL/6J-Tg(Thy1-GCaMP6s)GP4.12Dkim/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Nippert AR, et al. (2024) Whisker-evoked neurovascular coupling is preserved during hypoglycemia in mouse cortical arterioles and capillaries. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 44(2), 155.

Guo H, et al. (2023) Effects of focused ultrasound in a "clean" mouse model of ultrasonic neuromodulation. *iScience*, 26(12), 108372.

Császár E, et al. (2022) Microglia modulate blood flow, neurovascular coupling, and hypoperfusion via purinergic actions. *The Journal of experimental medicine*, 219(3).

McGill M, et al. (2022) Neural signatures of auditory hypersensitivity following acoustic trauma. *eLife*, 11.

Heindl S, et al. (2021) Chronic T cell proliferation in brains after stroke could interfere with the efficacy of immunotherapies. *The Journal of experimental medicine*, 218(8).

Kotekal S, et al. (2020) Recurrent interactions can explain the variance in single trial responses. *PLoS computational biology*, 16(1), e1007591.

Cramer JV, et al. (2019) In vivo widefield calcium imaging of the mouse cortex for analysis of network connectivity in health and brain disease. *NeuroImage*, 199, 570.

Minderer M, et al. (2019) The Spatial Structure of Neural Encoding in Mouse Posterior Cortex during Navigation. *Neuron*, 102(1), 232.

Dechery JB, et al. (2018) Functional triplet motifs underlie accurate predictions of single-trial responses in populations of tuned and untuned V1 neurons. *PLoS computational biology*, 14(5), e1006153.

Sato T, et al. (2018) Ultrasonic Neuromodulation Causes Widespread Cortical Activation via an Indirect Auditory Mechanism. *Neuron*, 98(5), 1031.