

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

C57BL/6J-Tg(Thy1-GCaMP6f)GP5.17Dkim/J

RRID:IMSR_JAX:025393

Type: Organism

Proper Citation

RRID:IMSR_JAX:025393

Organism Information

URL: <https://www.jax.org/strain/025393>

Proper Citation: RRID:IMSR_JAX:025393

Description: Mus musculus with name C57BL/6J-Tg(Thy1-GCaMP6f)GP5.17Dkim/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: thymus cell antigen 1; theta|transgene insertion GP5.17; Douglas Kim|Genetically encoded calcium indicator; coisogenic strain|mutant strain: Thy1|Tg(Thy1-GCaMP6f)GP5.17Dkim|GCaMP

Affected Gene: thymus cell antigen 1; theta|transgene insertion GP5.17; Douglas Kim|Genetically encoded calcium indicator

Genomic Alteration: transgene insertion GP5.17; Douglas Kim

Catalog Number: JAX:025393

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6J-Tg(Thy1-GCaMP6f)GP5.17Dkim/J

Record Creation Time: 20250513T053753+0000

Record Last Update: 20260725T044500+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Tg(Thy1-GCaMP6f)GP5.17Dkim/J.

No alerts have been found for C57BL/6J-Tg(Thy1-GCaMP6f)GP5.17Dkim/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 36 mentions in open access literature.

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

Swanson RA, et al. (2025) Topography of putative bi-directional interaction between hippocampal sharp-wave ripples and neocortical slow oscillations. *Neuron*, 113(5), 754.

Goldberg AR, et al. (2025) Glioma-induced alterations in excitatory neurons are reversed by mTOR inhibition. *Neuron*, 113(6), 858.

Lin H, et al. (2025) Altered cortical dynamics and adaptive behavior following early-onset sucrose overconsumption. *Current biology : CB*, 35(15), 3650.

Montagni E, et al. (2024) Mapping brain state-dependent sensory responses across the mouse cortex. *iScience*, 27(5), 109692.

Ma M, et al. (2024) Sequential activity of CA1 hippocampal cells constitutes a temporal memory map for associative learning in mice. *Current biology : CB*, 34(4), 841.

Brown TC, et al. (2024) Microglia are dispensable for experience-dependent refinement of mouse visual circuitry. *Nature neuroscience*, 27(8), 1462.

van Beest EH, et al. (2024) The direct and indirect pathways of the basal ganglia antagonistically influence cortical activity and perceptual decisions. *iScience*, 27(9), 110753.

Barykina NV, et al. (2024) Destabilized near-infrared fluorescent nanobodies enable background-free targeting of GFP-based biosensors for imaging and manipulation. *Nature communications*, 15(1), 7788.

Shiga Y, et al. (2024) Endoplasmic reticulum stress-related deficits in calcium clearance promote neuronal dysfunction that is prevented by SERCA2 gene augmentation. *Cell reports. Medicine*, 5(12), 101839.

Sunil S, et al. (2023) Neurovascular coupling is preserved in chronic stroke recovery after targeted photothrombosis. *NeuroImage. Clinical*, 38, 103377.

Ananthamurthy KG, et al. (2023) Synthetic Data Resource and Benchmarks for Time Cell Analysis and Detection Algorithms. *eNeuro*, 10(3).

Tort-Colet N, et al. (2023) Assessing brain state and anesthesia level with two-photon calcium signals. *Scientific reports*, 13(1), 3183.

Brown TC, et al. (2023) Microglia are dispensable for experience-dependent refinement of visual circuitry. *bioRxiv : the preprint server for biology*.

Geva N, et al. (2023) Time and experience differentially affect distinct aspects of hippocampal representational drift. *Neuron*, 111(15), 2357.

Kim S, et al. (2023) Whole-brain mapping of effective connectivity by fMRI with cortex-wide patterned optogenetics. *Neuron*.

Lyons-Warren AM, et al. (2023) Co-transmitting interneurons in the mouse olfactory bulb regulate olfactory detection and discrimination. *Cell reports*, 42(12), 113471.

Scaglione A, et al. (2022) Tracking the Effect of Therapy With Single-Trial Based Classification After Stroke. *Frontiers in systems neuroscience*, 16, 840922.

Chen Z, et al. (2022) Multimodal Noninvasive Functional Neurophotonic Imaging of Murine Brain-Wide Sensory Responses. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 9(24), e2105588.

Quintero H, et al. (2022) Restoration of mitochondria axonal transport by adaptor Disc1 supplementation prevents neurodegeneration and rescues visual function. *Cell reports*, 40(11), 111324.

Frey M, et al. (2021) Interpreting wide-band neural activity using convolutional neural networks. *eLife*, 10.