

Resource Summary Report

Generated by [NIF](#) on Aug 25, 2026

C57BL/6J-Tg(Thy1-GCaMP6s)GP4.3Dkim/J

RRID:IMSR_JAX:024275

Type: Organism

Proper Citation

RRID:IMSR_JAX:024275

Organism Information

URL: <https://www.jax.org/strain/024275>

Proper Citation: RRID:IMSR_JAX:024275

Description: Mus musculus with name C57BL/6J-Tg(Thy1-GCaMP6s)GP4.3Dkim/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6-Tg(Thy1-GCaMP6s)GP4.3Dkim/J

Notes: gene symbol note: thymus cell antigen 1; theta|Genetically encoded calcium indicator|transgene insertion GP4.3; Douglas Kim; coisogenic strain|mutant strain: Thy1|GCaMP|Tg(Thy1-GCaMP6s)GP4.3Dkim

Affected Gene: thymus cell antigen 1; theta|Genetically encoded calcium indicator|transgene insertion GP4.3; Douglas Kim

Genomic Alteration: transgene insertion GP4.3; Douglas Kim

Catalog Number: JAX:024275

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6J-Tg(Thy1-GCaMP6s)GP4.3Dkim/J

Record Creation Time: 20250513T053750+0000

Record Last Update: 20260815T050701+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Tg(Thy1-GCaMP6s)GP4.3Dkim/J.

No alerts have been found for C57BL/6J-Tg(Thy1-GCaMP6s)GP4.3Dkim/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 42 mentions in open access literature.

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

Melgosa-Ecenarro L, et al. (2026) Selective weakening of population-coupled synaptic activity in vivo in a mouse model of amyloid-beta pathology. *Nature communications*, 17(1).

Esteves IM, et al. (2026) Environmental enrichment accelerates the stabilization of cortical representation during de novo learning. *iScience*, 29(1), 114487.

Navratilova Z, et al. (2026) Place field dynamics in retrosplenial cortex compared to hippocampus. *Progress in neurobiology*, 257, 102867.

Zhao Y, et al. (2026) Multimodal imaging of gene expression, morphology, and activity of the same neuron. *Cell*, 189(15), 4792.

Sumegi M, et al. (2025) Diverse calcium dynamics underlie place field formation in hippocampal CA1 pyramidal cells. *eLife*, 13.

Robbins C, et al. (2024) Longitudinal changes in electrophysiology and widefield calcium imaging following electrode implantation. *Journal of neural engineering*, 21(6).

Dias RF, et al. (2024) Visual experience reduces the spatial redundancy between cortical feedback inputs and primary visual cortex neurons. *Neuron*, 112(19), 3329.

Demchuk AM, et al. (2024) Hierarchical Gradients of Encoded Spatial and Sensory Information in the Neocortex Are Attenuated by Dorsal Hippocampal Lesions. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(31).

Lycke R, et al. (2023) Low-threshold, high-resolution, chronically stable intracortical microstimulation by ultraflexible electrodes. *bioRxiv : the preprint server for biology*.

Capek E, et al. (2023) Parabolic avalanche scaling in the synchronization of cortical cell assemblies. *Nature communications*, 14(1), 2555.

Gill NK, et al. (2023) Repetition plasticity in primary auditory cortex occurs across long timescales for spectrotemporally randomized pure-tones. *bioRxiv : the preprint server for biology*.

Zhang Q, et al. (2023) Retinal microvascular and neuronal pathologies probed in vivo by adaptive optical two-photon fluorescence microscopy. *eLife*, 12.

Vestergaard M, et al. (2023) The cellular coding of temperature in the mammalian cortex. *Nature*, 614(7949), 725.

Kira S, et al. (2023) A distributed and efficient population code of mixed selectivity neurons for flexible navigation decisions. *Nature communications*, 14(1), 2121.

Navratilova Z, et al. (2023) Pattern Completion and Rate Remapping in Retrosplenial Cortex. *Research square*.

Inayat S, et al. (2023) Hippocampal conjunctive and complementary CA1 populations relate sensory events to movement. *iScience*, 26(4), 106481.

Suryavanshi P, et al. (2023) Brief excitotoxic insults cause a calpain-mediated increase in nuclear membrane permeability in neonatal neurons. *bioRxiv : the preprint server for biology*.

Esteves IM, et al. (2023) Consolidation of cellular memory representations in superficial neocortex. *iScience*, 26(2), 105970.

Lycke R, et al. (2023) Low-threshold, high-resolution, chronically stable intracortical microstimulation by ultraflexible electrodes. *Cell reports*, 42(6), 112554.

Imamura Y, et al. (2022) Amyloids facilitate DNA transfection in vivo. *Neuroscience research*, 180, 99.