Resource Summary Report

Generated by SPARC SAWG on Jul 31, 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: transgene insertion GP4.3; Douglas Kim|thymus cell antigen 1; theta|Genetically encoded calcium indicator; coisogenic strain|mutant strain: Tg(Thy1-GCaMP6s)GP4.3Dkim|Thy1|GCaMP

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

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: 20260725T044457+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 37 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

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

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

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).

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.

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.

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.

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

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.

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.

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.

Arlt C, et al. (2022) Cognitive experience alters cortical involvement in goal-directed navigation. eLife, 11.

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

Tang W, et al. (2022) Stem cell differentiation with consistent lineage commitment induced by a flash of ultrafast-laser activation in vitro and in vivo. Cell reports, 38(10), 110486.

Rupasinghe A, et al. (2021) Direct extraction of signal and noise correlations from two-photon calcium imaging of ensemble neuronal activity. eLife, 10.

Collins L, et al. (2021) Vagus nerve stimulation induces widespread cortical and behavioral activation. Current biology : CB, 31(10), 2088.