Resource Summary Report

Generated by kravitz2 on Aug 9, 2026

B6;DBA-Tg(tetO-GCaMP6s)2Niell/J

RRID:IMSR_JAX:024742
Type: Organism

Proper Citation

RRID:IMSR_JAX:024742

Organism Information

URL: https://www.jax.org/strain/024742

Proper Citation: RRID:IMSR_JAX:024742

Description: Mus musculus with name B6;DBA-Tg(tetO-GCaMP6s)2Niell/J from IMSR.

Species: Mus musculus

Synonyms: B6;CBA-Tg(tetO-GCaMP6s)2Niell/J

Notes: gene symbol note: transgene insertion 2; Cristopher Niell|Genetically encoded calcium indicator|tet operator; mutant stock: Tg(tetO-GCaMP6s)2Niell|GCaMP|tetO

Affected Gene: transgene insertion 2; Cristopher Niell|Genetically encoded calcium indicator|tet operator

Genomic Alteration: transgene insertion 2; Cristopher Niell

Catalog Number: JAX:024742

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;DBA-Tg(tetO-GCaMP6s)2Niell/J

Record Creation Time: 20250513T053752+0000

Record Last Update: 20260808T050954+0000

Ratings and Alerts

No rating or validation information has been found for B6;DBA-Tg(tetO-GCaMP6s)2Niell/J.

No alerts have been found for B6;DBA-Tg(tetO-GCaMP6s)2Niell/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 48 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Phillips ML, et al. (2026) Functional imaging of nine distinct neuronal populations under a miniscope in freely behaving animals. eLife, 15.

Zhang YE, et al. (2026) Adaptive reorganization of history encoding in the retrosplenial cortex supports flexible decision-making strategies. Neuron, 114(12), 2272.

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

Attaway CA, et al. (2026) Enhancing Experience-Dependent Plasticity Accelerates Vision Loss in a Murine Model of Retinitis Pigmentosa. Investigative ophthalmology & visual science, 67(3), 15.

Oakes DK, et al. (2026) A mouse model for cerebral/cortical visual impairment (CVI) impairs vision and disrupts the spatial frequency tuning of neurons in visual cortex. Experimental neurology, 115648.

Peelman K, et al. (2026) A standardized and reproducible behavioral framework to elicit multiple aspects of visual spatial attention in mice. Cell reports methods, 101514.

Hendricks WD, et al. (2026) Feature-tuned synaptic inputs to somatostatin interneurons drive context-dependent processing. Neuron, 114(7), 1257.

Majumdar A, et al. (2025) Distinct representations of economic variables across regions and projections of the frontal cortex. Neuron, 113(24), 4232.

Zhong L, et al. (2025) Unsupervised pretraining in biological neural networks. Nature, 644(8077), 741.

Attaway CA, et al. (2025) Enhancing experience-dependent plasticity accelerates vision loss in a murine model of retinitis pigmentosa. bioRxiv : the preprint server for biology.

Brown TC, et al. (2025) Representational drift gates critical-period plasticity in mouse visual cortex. Current biology : CB, 35(17), 4251.

Lopez-Ortega E, et al. (2024) Stimulus-dependent synaptic plasticity underlies neuronal circuitry refinement in the mouse primary visual cortex. Cell reports, 43(4), 113966.

Panniello M, et al. (2024) Stimulus information guides the emergence of behavior-related signals in primary somatosensory cortex during learning. Cell reports, 43(6), 114244.

Han X, et al. (2024) Higher-order cortical and thalamic pathways shape visual processing streams in the mouse cortex. Current biology : CB, 34(24), 5671.

Beshkov K, et al. (2024) Topological structure of population activity in mouse visual cortex encodes densely sampled stimulus rotations. iScience, 27(4), 109370.

Syeda A, et al. (2024) Facemap: a framework for modeling neural activity based on orofacial tracking. Nature neuroscience, 27(1), 187.

Hoerder-Suabedissen A, et al. (2023) Temporal origin of mouse claustrum and development of its cortical projections. Cerebral cortex (New York, N.Y. : 1991), 33(7), 3944.

Bounds HA, et al. (2023) All-optical recreation of naturalistic neural activity with a multifunctional transgenic reporter mouse. Cell reports, 42(8), 112909.

Brown TC, et al. (2023) Monocular deprivation during the critical period alters neuronal tuning and the composition of visual circuitry. PLoS biology, 21(4), e3002096.

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