

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

B6.Cg-Tg(Camk2a-tTA)1Mmay/DboJ

RRID:IMSR_JAX:007004

Type: Organism

Proper Citation

RRID:IMSR_JAX:007004

Organism Information

URL: <https://www.jax.org/strain/007004>

Proper Citation: RRID:IMSR_JAX:007004

Description: Mus musculus with name B6.Cg-Tg(Camk2a-tTA)1Mmay/DboJ from IMSR.

Species: Mus musculus

Synonyms: B6.CBA-Tg(Camk2a-tTA)1Mmay/DboJ

Notes: gene symbol note: tetracycline-controlled transactivator|transgene insertion 1; Mark Mayford|calcium/calmodulin-dependent protein kinase II alpha; mutant strain|congenic strain: tTA|Tg(Camk2a-tTA)1Mmay|Camk2a

Affected Gene: tetracycline-controlled transactivator|transgene insertion 1; Mark Mayford|calcium/calmodulin-dependent protein kinase II alpha

Genomic Alteration: transgene insertion 1; Mark Mayford

Catalog Number: JAX:007004

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Camk2a-tTA)1Mmay/DboJ

Record Creation Time: 20250513T053700+0000

Record Last Update: 20260815T050616+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Camk2a-tTA)1Mmay/DboJ.

No alerts have been found for B6.Cg-Tg(Camk2a-tTA)1Mmay/DboJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 52 mentions in open access literature.

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

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

Perez GA, et al. (2026) Neuronal subtype governs amyloid structure, cellular response, and cognitive outcome in genetically targeted APP mouse models. *Molecular neurodegeneration*, 21(1), 2.

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.

Marica AM, et al. (2026) Striatal visual responses increase prior to visuomotor learning. *Current biology : CB*, 36(12), 3131.

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.

Wilson P, et al. (2025) Presynaptic recycling pool density regulates spontaneous synaptic vesicle exocytosis rate and is upregulated in the presence of γ -amyloid. *Cell reports*, 44(4), 115410.

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

Harris SS, et al. (2025) Alzheimer's disease patient-derived high-molecular-weight tau impairs bursting in hippocampal neurons. *Cell*, 188(14), 3775.

Heiser H, et al. (2025) Brain-wide microstrokes affect the stability of memory circuits in the hippocampus. *Nature communications*, 16(1), 3462.

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

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*.

Jiang H, et al. (2025) A parallelly distributed microscope and software system for scalable high-throughput multispectral 3D imaging. *bioRxiv : the preprint server for biology*.

Frame AK, et al. (2024) Altered neuronal lactate dehydrogenase A expression affects cognition in a sex- and age-dependent manner. *iScience*, 27(7), 110342.

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

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.

Nanclares C, et al. (2023) Dysregulation of astrocytic Ca²⁺ signaling and gliotransmitter release in mouse models of α -synucleinopathies. *Acta neuropathologica*, 145(5), 597.

Brenner JM, et al. (2023) A genetically defined tecto-thalamic pathway drives a system of superior-colliculus-dependent visual cortices. *Neuron*.

Festa BP, et al. (2023) Microglial-to-neuronal CCR5 signaling regulates autophagy in neurodegeneration. *Neuron*, 111(13), 2021.