

Resource Summary Report

Generated by [NIF](#) on Aug 21, 2026

B6;CBA-Tg(Camk2a-tTA)1Mmay/J

RRID:IMSR_JAX:003010

Type: Organism

Proper Citation

RRID:IMSR_JAX:003010

Organism Information

URL: <https://www.jax.org/strain/003010>

Proper Citation: RRID:IMSR_JAX:003010

Description: Mus musculus with name B6;CBA-Tg(Camk2a-tTA)1Mmay/J from IMSR.

Species: Mus musculus

Synonyms: B6;CBA-TgN(CamK2tTA)1Mmay

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

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

Genomic Alteration: transgene insertion 1; Mark Mayford

Catalog Number: JAX:003010

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;CBA-Tg(Camk2a-tTA)1Mmay/J

Record Creation Time: 20250513T053636+0000

Record Last Update: 20260815T050547+0000

Ratings and Alerts

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

No alerts have been found for B6;CBA-Tg(Camk2a-tTA)1Mmay/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 35 mentions in open access literature.

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

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

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

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

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.

Koller EJ, et al. (2024) Doxycycline for transgene control disrupts gut microbiome diversity without compromising acute neuroinflammatory response. *Journal of neuroinflammation*, 21(1), 11.

Ben-Nejma IRH, et al. (2023) Altered dynamics of glymphatic flow in a mature-onset Tet-off APP mouse model of amyloidosis. *Alzheimer's research & therapy*, 15(1), 23.

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

Turner NL, et al. (2022) Reconstruction of neocortex: Organelles, compartments, cells, circuits, and activity. *Cell*, 185(6), 1082.

Hattori R, et al. (2022) PatchWarp: Corrections of non-uniform image distortions in two-photon calcium imaging data by patchwork affine transformations. *Cell reports methods*, 2(5), 100205.

Dorkenwald S, et al. (2022) Binary and analog variation of synapses between cortical pyramidal neurons. *eLife*, 11.

Colombo G, et al. (2022) A tool for mapping microglial morphology, morphOMICs, reveals brain-region and sex-dependent phenotypes. *Nature neuroscience*, 25(10), 1379.

Dai KZ, et al. (2022) Dopamine D2 receptors bidirectionally regulate striatal enkephalin expression: Implications for cocaine reward. *Cell reports*, 40(13), 111440.

Hattori R, et al. (2022) Context-dependent persistency as a coding mechanism for robust and widely distributed value coding. *Neuron*, 110(3), 502.

Schneider-Mizell CM, et al. (2021) Structure and function of axo-axonic inhibition. *eLife*, 10.

Dyer MS, et al. (2021) Mislocalisation of TDP-43 to the cytoplasm causes cortical hyperexcitability and reduced excitatory neurotransmission in the motor cortex. *Journal of neurochemistry*, 157(4), 1300.

Brown J, et al. (2021) Spatial integration during active tactile sensation drives orientation perception. *Neuron*, 109(10), 1707.

Lyll EH, et al. (2021) Synthesis of a comprehensive population code for contextual features in the awake sensory cortex. *eLife*, 10.

Tan L, et al. (2020) Vision Changes the Cellular Composition of Binocular Circuitry during the Critical Period. *Neuron*, 108(4), 735.

Jin M, et al. (2020) Mouse Higher Visual Areas Provide Both Distributed and Specialized Contributions to Visually Guided Behaviors. *Current biology : CB*, 30(23), 4682.

Hwang EJ, et al. (2019) Corticostriatal Flow of Action Selection Bias. *Neuron*, 104(6), 1126.