

Resource Summary Report

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B6.Cg-Tg(Camk2a-cre)T29-1Stl/J

RRID:IMSR_JAX:005359

Type: Organism

Proper Citation

RRID:IMSR_JAX:005359

Organism Information

URL: <https://www.jax.org/strain/005359>

Proper Citation: RRID:IMSR_JAX:005359

Description: Mus musculus with name B6.Cg-Tg(Camk2a-cre)T29-1Stl/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |calcium/calmodulin-dependent protein kinase II alpha|transgene insertion T29-1; Susumu Tonegawa; mutant strain|congenic strain: |Camk2a|Tg(Camk2a-cre)T29-1Stl

Affected Gene: |calcium/calmodulin-dependent protein kinase II alpha|transgene insertion T29-1; Susumu Tonegawa

Genomic Alteration: transgene insertion T29-1; Susumu Tonegawa

Catalog Number: JAX:005359

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Camk2a-cre)T29-1Stl/J

Record Creation Time: 20250513T053649+0000

Record Last Update: 20260801T050353+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Camk2a-cre)T29-1Stl/J.

No alerts have been found for B6.Cg-Tg(Camk2a-cre)T29-1Stl/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 202 mentions in open access literature.

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

Wang J, et al. (2025) Rab10 inactivation promotes AMPAR trafficking and spine enlargement during long-term potentiation. bioRxiv : the preprint server for biology.

Li X, et al. (2025) Activation of the PERK Branch of the UPR as a Strategy for Improving Outcomes in Acute Ischemic Stroke. ACS omega, 10(15), 15461.

Fan FC, et al. (2025) Neurotrophic factor- β 1/carboxypeptidase E controls progression and reversal of Alzheimer's disease pathogenesis in mice. Theranostics, 15(6), 2279.

Wang J, et al. (2025) Rab10 inactivation promotes AMPAR trafficking and spine enlargement during long-term potentiation. eLife, 13.

Tian L, et al. (2025) DNMT3a Downregulation Triggered Upregulation of GABAA Receptor in the mPFC Promotes Paclitaxel-Induced Pain and Anxiety in Male Mice. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(5), e2407387.

Goldberg AR, et al. (2025) Glioma-induced alterations in excitatory neurons are reversed by mTOR inhibition. Neuron, 113(6), 858.

Azeem S, et al. (2025) CMTR1-catalyzed 2'-O-methylation promotes NMDA receptor signaling, long-term potentiation and memory. Progress in neurobiology, 251, 102802.

Wolcott NS, et al. (2025) The estrous cycle modulates hippocampal spine dynamics, dendritic processing, and spatial coding. Neuron, 113(14), 2297.

Zhong S, et al. (2025) Ultrabright chemical labeling enables rapid neural connectivity profiling in large tissue samples. Neuron.

Palchadhuri S, et al. (2025) A posterior insula to lateral amygdala pathway transmits US-offset information with a limited role in fear learning. Cell reports, 44(2), 115320.

Zhou Y, et al. (2025) Epigenetic Regulation of DAPK1 and Netrin-1 Drives Diabetic Encephalopathy. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e02535.

Huang Z, et al. (2025) Hippocampal Inhibitory Interneuron-Specific DREADDs Treatment Alters mTORC1-4E-BP Signaling and Impairs Memory Formation. *Journal of neurochemistry*, 169(3), e70048.

Jeon S, et al. (2025) ACE1 does not influence cerebral A β degradation or amyloid plaque accumulation in 5XFAD mice. *PloS one*, 20(9), e0330193.

Wang F, et al. (2025) A sensory-motor-sensory circuit underlies antinociception ignited by primary motor cortex in mice. *Neuron*, 113(12), 1947.

Houser G, et al. (2025) Organization and development of bilateral somatosensory feedback projections in mice. *iScience*, 28(6), 112725.

Lo H, et al. (2025) Feeding-induced olfactory cortex suppression reduces satiation. *Neuron*, 113(17), 2856.

Bi D, et al. (2025) BACE1-dependent cleavage of GABAA receptor contributes to neural hyperexcitability and disease progression in Alzheimer's disease. *Neuron*, 113(7), 1051.

Zanetti L, et al. (2025) Go/z-biased coupling profile of the dopamine D3 receptor. *bioRxiv* : the preprint server for biology.

Zheng Y, et al. (2025) Biased histamine signaling selectively gates fat preference. *Neuron*.

Lee J, et al. (2024) Anatomical topology of extrahippocampal projections from dorsoventral CA pyramidal neurons in mice. *Frontiers in neuroanatomy*, 18, 1421034.