

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

B6;129S6-Tg(Camk2a-cre/ERT2)1Aibs/J

RRID:IMSR_JAX:012362

Type: Organism

Proper Citation

RRID:IMSR_JAX:012362

Organism Information

URL: <https://www.jax.org/strain/012362>

Proper Citation: RRID:IMSR_JAX:012362

Description: Mus musculus with name B6;129S6-Tg(Camk2a-cre/ERT2)1Aibs/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: calcium/calmodulin-dependent protein kinase II alpha|Cre recombinase and estrogen receptor 1 (human) fusion gene|transgene insertion 1; Allen Institute for Brain Science; mutant stock: Camk2a|cre/ERT2|Tg(Camk2a-cre/ERT2)1Aibs

Affected Gene: calcium/calmodulin-dependent protein kinase II alpha|Cre recombinase and estrogen receptor 1 (human) fusion gene|transgene insertion 1; Allen Institute for Brain Science

Genomic Alteration: transgene insertion 1; Allen Institute for Brain Science

Catalog Number: JAX:012362

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S6-Tg(Camk2a-cre/ERT2)1Aibs/J

Record Creation Time: 20250513T053720+0000

Record Last Update: 20260905T044504+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S6-Tg(Camk2a-cre/ERT2)1Aibs/J.

No alerts have been found for B6;129S6-Tg(Camk2a-cre/ERT2)1Aibs/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Hokenson RE, et al. (2026) Hippocampal estrogen levels, receptor types, and epigenetics contribute to sex-specific memory vulnerabilities to concurrent acute stresses. *Neuron*, 114(8), 1454.

Tahor M, et al. (2026) Disruption of the developmental factor Otp in the adult male forebrain reveals its diverse physiological functions. *Endocrinology*, 167(4).

Tsokas P, et al. (2026) PKM γ -PKC δ double-knockout demonstrates atypical PKC is crucial for the persistence of hippocampal LTP and spatial memory. *eLife*, 15.

Jansen MI, et al. (2025) Neuronal PAC1 deletion impairs structural plasticity. *Life sciences*, 378, 123843.

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

Kitaoka S, et al. (2023) Repeated Social Defeat Stress Induces HMGB1 Nuclear Export in Prefrontal Neurons, Leading to Social Avoidance in Mice. *Cells*, 12(13).

Barrio-Alonso E, et al. (2023) Circadian protein TIMELESS regulates synaptic function and memory by modulating cAMP signaling. *Cell reports*, 42(4), 112375.

De La Rossa A, et al. (2022) Paradoxical neuronal hyperexcitability in a mouse model of mitochondrial pyruvate import deficiency. *eLife*, 11.

Gu X, et al. (2022) Uninterrupted CAG repeat drives striatum-selective transcriptionopathy and nuclear pathogenesis in human Huntingtin BAC mice. *Neuron*, 110(7), 1173.

Pratt KJB, et al. (2022) Loss of neuronal Tet2 enhances hippocampal-dependent cognitive function. *Cell reports*, 41(6), 111612.

Miller DS, et al. (2021) Neuronal Dystroglycan regulates postnatal development of CCK/cannabinoid receptor-1 interneurons. *Neural development*, 16(1), 4.

Albarran E, et al. (2021) Enhancing motor learning by increasing the stability of newly formed dendritic spines in the motor cortex. *Neuron*, 109(20), 3298.

Veldman MB, et al. (2020) Brainwide Genetic Sparse Cell Labeling to Illuminate the Morphology of Neurons and Glia with Cre-Dependent MORF Mice. *Neuron*, 108(1), 111.

Moutal A, et al. (2019) Neuronal Conditional Knockout of Collapsin Response Mediator Protein 2 Ameliorates Disease Severity in a Mouse Model of Multiple Sclerosis. *ASN neuro*, 11, 1759091419892090.

Wheatley EG, et al. (2019) Neuronal O-GlcNAcylation Improves Cognitive Function in the Aged Mouse Brain. *Current biology : CB*, 29(20), 3359.

Marathe S, et al. (2017) Jagged1 Is Altered in Alzheimer's Disease and Regulates Spatial Memory Processing. *Frontiers in cellular neuroscience*, 11, 220.

Madisen L, et al. (2012) A toolbox of Cre-dependent optogenetic transgenic mice for light-induced activation and silencing. *Nature neuroscience*, 15(5), 793.