

Resource Summary Report

Generated by [kravitz2](#) on Sep 18, 2026

B6;129S-Calb1^{tm2.1(cre)}Hze/J

RRID:IMSR_JAX:028532

Type: Organism

Proper Citation

RRID:IMSR_JAX:028532

Organism Information

URL: <https://www.jax.org/strain/028532>

Proper Citation: RRID:IMSR_JAX:028532

Description: Mus musculus with name B6;129S-Calb1^{tm2.1(cre)}Hze/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Calb1/J

Notes: gene symbol note: |calbindin 1; mutant stock: |Calb1

Affected Gene: |calbindin 1

Genomic Alteration: targeted mutation 2.1; Hongkui Zeng

Catalog Number: JAX:028532

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S-Calb1^{tm2.1(cre)}Hze/J

Record Creation Time: 20250513T053804+0000

Record Last Update: 20260912T060544+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Calb1^{tm2.1(cre)}Hze/J.

No alerts have been found for B6;129S-Calb1^{tm2.1(cre)}Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Wongkrasant P, et al. (2026) Short-Chain Fatty Acids Activate Myenteric Neurons and Delay Colonic Motility via Free Fatty Acid Receptors 2 and 3 in the Mouse. *Neurogastroenterology and motility*, 38(4), e70299.

Razlan AN, et al. (2026) Characterisation of cold-selective lamina I spinal projection neurons in the mouse. *eLife*, 14.

Zhao TY, et al. (2026) Projectomic profiles of calbindin D28K-expressing neurons in the mediodorsal thalamic nucleus of mouse. *Brain research bulletin*, 243, 112013.

Fatima M, et al. (2026) A specialized population of hair afferents dedicated to transmitting mechanical itch. *Neuron*.

Su XY, et al. (2026) A touch-guided neural circuit regulates motivated gnawing to maintain dental alignment. *Neuron*, 114(11), 2020.

Esparza J, et al. (2025) Cell-type-specific manifold analysis discloses independent geometric transformations in the hippocampal spatial code. *Neuron*, 113(7), 1098.

Hamnett R, et al. (2025) Enteric glutamatergic interneurons regulate intestinal motility. *Neuron*, 113(7), 1019.

Luo YJ, et al. (2025) Segregated supramammillary-dentate gyrus circuits modulate cognitive and affective function in healthy and Alzheimer's disease model mice. *Neuron*, 113(23), 4001.

Olson WP, et al. (2025) Muscle spindles provide flexible sensory feedback for movement sequences. *Cell reports*, 44(11), 116452.

Fushiki A, et al. (2024) A Vulnerable Subtype of Dopaminergic Neurons Drives Early Motor Deficits in Parkinson's Disease. *bioRxiv : the preprint server for biology*.

Schappe MS, et al. (2024) A vagal reflex evoked by airway closure. *Nature*, 627(8005), 830.

Azcorra M, et al. (2023) Unique functional responses differentially map onto genetic subtypes of dopamine neurons. *Nature neuroscience*, 26(10), 1762.

Yao S, et al. (2023) A whole-brain monosynaptic input connectome to neuron classes in mouse visual cortex. *Nature neuroscience*, 26(2), 350.

Takahashi TM, et al. (2022) Optogenetic induction of hibernation-like state with modified human Opsin4 in mice. *Cell reports methods*, 2(11), 100336.

Szocs S, et al. (2022) Neurogliaform cells mediate feedback inhibition in the medial entorhinal cortex. *Frontiers in neuroanatomy*, 16, 779390.

Balsamo G, et al. (2022) Modular microcircuit organization of the presubicular head-direction map. *Cell reports*, 39(2), 110684.

Sumser A, et al. (2022) Fast, high-throughput production of improved rabies viral vectors for specific, efficient and versatile transsynaptic retrograde labeling. *eLife*, 11.

Ding L, et al. (2022) Juxtacellular opto-tagging of hippocampal CA1 neurons in freely moving mice. *eLife*, 11.

Babiczyk ??, et al. (2022) Molecular characteristics and laminar distribution of prefrontal neurons projecting to the mesolimbic system. *eLife*, 11.

Hamnett R, et al. (2022) Regional cytoarchitecture of the adult and developing mouse enteric nervous system. *Current biology : CB*, 32(20), 4483.