

Resource Summary Report

Generated by [ASWG](#) on Aug 25, 2026

B6N.Cg-Gad2^{tm2}(cre)Zjh/J

RRID:IMSR_JAX:019022

Type: Organism

Proper Citation

RRID:IMSR_JAX:019022

Organism Information

URL: <https://www.jax.org/strain/019022>

Proper Citation: RRID:IMSR_JAX:019022

Description: Mus musculus with name B6N.Cg-Gad2^{tm2}(cre)Zjh/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: glutamic acid decarboxylase 2|; mutant strain|congenic strain: Gad2|

Affected Gene: glutamic acid decarboxylase 2|

Genomic Alteration: targeted mutation 2; Z Josh Huang

Catalog Number: JAX:019022

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6N.Cg-Gad2^{tm2}(cre)Zjh/J

Record Creation Time: 20250513T053740+0000

Record Last Update: 20260815T050652+0000

Ratings and Alerts

No rating or validation information has been found for B6N.Cg-Gad2^{tm2}(cre)Zjh/J.

No alerts have been found for B6N.Cg-Gad2^{tm2}(cre)Zjh/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

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.

Wang Q, et al. (2026) CB1R and GlyT2 interaction in spinal glycinergic circuits drives neuropathic mechanical pain. *Neuron*, 114(5), 884.

Zheng L, et al. (2026) The posteroventral part of the medial amygdala nucleus glutamatergic neurons encodes conspecifics' individual identity in rodents. *Science advances*, 12(21), eady9830.

Xie T, et al. (2025) An excitatory circuit in the ventrolateral periaqueductal gray drives hypometabolic state during acute systemic inflammation. *Cell reports*, 44(10), 116394.

Min R, et al. (2024) Inhibitory maturation and ocular dominance plasticity in mouse visual cortex require astrocyte CB1 receptors. *iScience*, 27(12), 111410.

Jun S, et al. (2023) Organization of Purkinje cell development by neuronal MEGF11 in cerebellar granule cells. *Cell reports*, 42(9), 113137.

Davenport CM, et al. (2022) Innate frequency-discrimination hyperacuity in Williams-Beuren syndrome mice. *Cell*, 185(21), 3877.

Yamagata T, et al. (2021) The hypothalamic link between arousal and sleep homeostasis in mice. *Proceedings of the National Academy of Sciences of the United States of America*, 118(51).

Fujita H, et al. (2020) Modular output circuits of the fastigial nucleus for diverse motor and nonmotor functions of the cerebellar vermis. *eLife*, 9.

Gu Z, et al. (2020) Hippocampal Interneuronal γ nAChRs Modulate Theta Oscillations in Freely Moving Mice. *Cell reports*, 31(10), 107740.

Vaaga CE, et al. (2020) Cerebellar modulation of synaptic input to freezing-related neurons in the periaqueductal gray. *eLife*, 9.

Luo L, et al. (2020) Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. *Neuron*, 106(1), 37.

Li Y, et al. (2019) Rostral and Caudal Ventral Tegmental Area GABAergic Inputs to Different Dorsal Raphe Neurons Participate in Opioid Dependence. *Neuron*, 101(4), 748.

Tipps M, et al. (2018) Inhibition of Pyramidal Neurons in the Basal Amygdala Promotes Fear Learning. *eNeuro*, 5(5).

Jiang BC, et al. (2017) Promoted Interaction of C/EBP β with Demethylated Cxcr3 Gene Promoter Contributes to Neuropathic Pain in Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(3), 685.