

# Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

## B6J.Cg-Gad2<sup>tm2</sup>(cre)Zjh/MwarJ

RRID:IMSR\_JAX:028867

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:028867

### Organism Information

**URL:** <https://www.jax.org/strain/028867>

**Proper Citation:** RRID:IMSR\_JAX:028867

**Description:** Mus musculus with name B6J.Cg-Gad2<sup>tm2</sup>(cre)Zjh/MwarJ 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:028867

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** B6J.Cg-Gad2<sup>tm2</sup>(cre)Zjh/MwarJ

**Record Creation Time:** 20250513T053806+0000

**Record Last Update:** 20260725T044512+0000

### Ratings and Alerts

No rating or validation information has been found for B6J.Cg-Gad2<sup>tm2</sup>(cre)Zjh/MwarJ.

No alerts have been found for B6J.Cg-Gad2<sup>tm2</sup>(cre)Zjh/MwarJ.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Lee SS, et al. (2025) Sleep need-dependent plasticity of a thalamic circuit promotes homeostatic recovery sleep. *Science (New York, N.Y.)*, 388(6753), eadm8203.

Tian L, et al. (2025) DNMT3a Downregulation Ttriggered 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.

Li W, et al. (2025) A brain-to-lung signal from GABAergic neurons to ADRB2+ interstitial macrophages promotes pulmonary inflammatory responses. *Immunity*, 58(8), 2069.

Liu S, et al. (2025) Neural basis of transcutaneous electrical nerve stimulation for neuropathic pain relief. *Neuron*.

Kalyanasundar B, et al. (2025) Chemogenetic suppression of NST GABA neurons reveals inhibition of behavioral responses to sucrose and quinine. *Physiology & behavior*, 295, 114889.

Du J, et al. (2025) Astrocytic modulation of GABA transmission in the VTA limits progression of anxiety- and depression-like behaviors in adult mice. *Cell reports*, 44(6), 115824.

Li XY, et al. (2024) TGR5-mediated lateral hypothalamus-dCA3-dorsolateral septum circuit regulates depressive-like behavior in male mice. *Neuron*.

Jones DJ, et al. (2024) Effective knockdown-replace gene therapy in a novel mouse model of DNMT1 developmental and epileptic encephalopathy. *Molecular therapy : the journal of the American Society of Gene Therapy*, 32(10), 3318.

Gao Y, et al. (2024) BLA DBS improves anxiety and fear by correcting weakened synaptic transmission from BLA to adBNST and CeL in a mouse model of foot shock. *Cell reports*, 43(2), 113766.

Zheng J, et al. (2024) An insular cortical circuit required for itch sensation and aversion. *Current biology : CB*.

Kronman FA, et al. (2023) Developmental Mouse Brain Common Coordinate Framework. *bioRxiv : the preprint server for biology*.

- Formozov A, et al. (2023) A flexible and versatile system for multi-color fiber photometry and optogenetic manipulation. *Cell reports methods*, 3(3), 100418.
- Li HY, et al. (2023) A thalamic-primary auditory cortex circuit mediates resilience to stress. *Cell*, 186(7), 1352.
- Liu Y, et al. (2023) Mapping visual functions onto molecular cell types in the mouse superior colliculus. *Neuron*, 111(12), 1876.
- Yao Z, et al. (2023) A high-resolution transcriptomic and spatial atlas of cell types in the whole mouse brain. *Nature*, 624(7991), 317.
- Cao P, et al. (2023) Green light induces antinociception via visual-somatosensory circuits. *Cell reports*, 42(4), 112290.
- Baek SJ, et al. (2022) VTA-projecting cerebellar neurons mediate stress-dependent depression-like behaviors. *eLife*, 11.
- Jia X, et al. (2022) Divergent neurocircuitry dissociates two components of the stress response: glucose mobilization and anxiety-like behavior. *Cell reports*, 41(6), 111586.
- Zheng Z, et al. (2022) Hypothalamus-habenula potentiation encodes chronic stress experience and drives depression onset. *Neuron*, 110(8), 1400.
- Herz J, et al. (2021) GABAergic neuronal IL-4R mediates T cell effect on memory. *Neuron*, 109(22), 3609.