

Resource Summary Report

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

STOCK Gad2^{tm2}(cre)Zjh/J

RRID:IMSR_JAX:010802

Type: Organism

Proper Citation

RRID:IMSR_JAX:010802

Organism Information

URL: <https://www.jax.org/strain/010802>

Proper Citation: RRID:IMSR_JAX:010802

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

Species: Mus musculus

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

Affected Gene: |glutamic acid decarboxylase 2

Genomic Alteration: targeted mutation 2; Z Josh Huang

Catalog Number: JAX:010802

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: STOCK Gad2^{tm2}(cre)Zjh/J

Record Creation Time: 20250513T053717+0000

Record Last Update: 20260725T044427+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 162 mentions in open access literature.

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

Tang MY, et al. (2025) Medial preoptic CCKAR mediates anxiety and aggression induced by chronic emotional stress in male mice. *National science review*, 12(10), nwaf152.

Aggarwal A, et al. (2025) Glutamate indicators with increased sensitivity and tailored deactivation rates. *bioRxiv : the preprint server for biology*.

Wu S, et al. (2025) An Atlas of Thyroid Hormone Responsive Genes in Adult Mouse Hypothalamus. *Endocrinology*, 166(6).

Ogg MC, et al. (2025) Locus coeruleus norepinephrine neurons facilitate orbitofrontal cortex remapping and behavioral flexibility. *Cell reports*, 44(12), 116687.

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

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.

Hong CY, et al. (2025) Anterior hypothalamic nucleus drives distinct defensive responses through cell-type-specific activity. *iScience*, 28(4), 112097.

El-Fayomi L, et al. (2025) Toward biomimetic optogenetics: Drug-free activation of acute opiate reward. *iScience*, 28(10), 113465.

Thapa R, et al. (2025) Single-nucleus RNA sequencing reveals GABAergic vulnerability and reactive gliosis driven by loss of TDP-43. *iScience*, 28(11), 113745.

Sun Q, et al. (2025) Dynorphin modulates reward-seeking actions through a pallido-amygdala cholinergic circuit. *Neuron*, 113(11), 1823.

Zhu Z, et al. (2025) Whole-brain long-range connectivity of glutamatergic, GABAergic, parvalbumin-expressing and somatostatin-expressing neurons in mouse somatosensory cortex. *Neuroscience research*, 217, 104912.

Gu BM, et al. (2025) Substantia nigra modulates breathing rate via locus coeruleus. *iScience*, 28(5), 112423.

Kohn NK, et al. (2025) Dendritic architecture enables de novo computation of salient motion in the superior colliculus. *Current biology : CB*, 35(16), 3799.

Sun Q, et al. (2024) Dynorphin modulates motivation through a pallido-amygdala cholinergic circuit. *bioRxiv : the preprint server for biology*.

Cone JJ, et al. (2024) Stimulus-dependent differences in cortical versus subcortical contributions to visual detection in mice. *Current biology : CB*, 34(9), 1940.

Dadarlat MC, et al. (2024) Activity-dependent recruitment of inhibition and excitation in the awake mammalian cortex during electrical stimulation. *Neuron*, 112(5), 821.

DePiero VJ, et al. (2024) Transformation of Motion Pattern Selectivity from Retina to Superior Colliculus. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(20).

Lohse M, et al. (2024) Subcortical origin of nonlinear sound encoding in auditory cortex. *Current biology : CB*, 34(15), 3405.

Lee TY, et al. (2024) Midbrain encodes sound detection behavior without auditory cortex. *eLife*, 12.

Choi A, et al. (2024) Circuit mechanism underlying fragmented sleep and memory deficits in 16p11.2 deletion mouse model of autism. *iScience*, 27(12), 111285.