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.

K??hn 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.