Resource Summary Report

Generated by RRID on Jul 30, 2026

B6.129-Nos1$^{tm1(cre)Mgmj}$/J

RRID:IMSR_JAX:017526
Type: Organism

Proper Citation

RRID:IMSR_JAX:017526

Organism Information

URL: https://www.jax.org/strain/017526

Proper Citation: RRID:IMSR_JAX:017526

Description: Mus musculus with name B6.129-Nos1$^{tm1(cre)Mgmj}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: nitric oxide synthase 1; neuronal|; mutant strain|congenic strain: Nos1|

Affected Gene: nitric oxide synthase 1; neuronal|

Genomic Alteration: targeted mutation 1; Martin G Myers; Jr

Catalog Number: JAX:017526

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129-Nos1$^{tm1(cre)Mgmj}$/J

Record Creation Time: 20250513T053732+0000

Record Last Update: 20260725T044441+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Nos1$^{tm1(cre)Mgmj}$/J.

No alerts have been found for B6.129-Nos1$^{tm1(cre)Mgmj}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Brown ST, et al. (2025) High-speed voltage imaging of action potentials in molecular layer interneurons reveals sensory-driven synchrony that augments movement. Cell reports, 44(8), 116148.

Schaeffer SM, et al. (2025) Hypertension-induced neurovascular and cognitive dysfunction at single-cell resolution. Neuron.

Stieve BJ, et al. (2023) LINCs Are Vulnerable to Epileptic Insult and Fail to Provide Seizure Control via On-Demand Activation. eNeuro, 10(2).

Carzoli KL, et al. (2023) Cerebellar interneurons control fear memory consolidation via learning-induced HCN plasticity. Cell reports, 42(9), 113057.

Zhang T, et al. (2022) An inter-organ neural circuit for appetite suppression. Cell, 185(14), 2478.

Wang X, et al. (2021) Decreased excitatory drive onto hilar neuronal nitric oxide synthase expressing interneurons in chronic models of epilepsy. Brain research, 1764, 147467.

Stern SA, et al. (2021) Top-down control of conditioned overconsumption is mediated by insular cortex Nos1 neurons. Cell metabolism, 33(7), 1418.

Kim A, et al. (2021) Neural basis for regulation of vasopressin secretion by anticipated disturbances in osmolality. eLife, 10.

Livneh Y, et al. (2020) Estimation of Current and Future Physiological States in Insular Cortex. Neuron, 105(6), 1094.

Echagarruga CT, et al. (2020) nNOS-expressing interneurons control basal and behaviorally evoked arterial dilation in somatosensory cortex of mice. eLife, 9.

Liang HY, et al. (2020) nNOS-expressing neurons in the vmPFC transform pPVT-derived chronic pain signals into anxiety behaviors. Nature communications, 11(1), 2501.

Gong R, et al. (2020) Hindbrain Double-Negative Feedback Mediates Palatability-Guided Food and Water Consumption. Cell, 182(6), 1589.

Christenson Wick Z, et al. (2019) Novel long-range inhibitory nNOS-expressing hippocampal cells. eLife, 8.

Augustine V, et al. (2019) Temporally and Spatially Distinct Thirst Satiation Signals. Neuron, 103(2), 242.

Oboti L, et al. (2018) Amygdala Corticofugal Input Shapes Mitral Cell Responses in the Accessory Olfactory Bulb. eNeuro, 5(3).

Leib DE, et al. (2017) The Forebrain Thirst Circuit Drives Drinking through Negative Reinforcement. Neuron, 96(6), 1272.

Tan CL, et al. (2016) Warm-Sensitive Neurons that Control Body Temperature. Cell, 167(1), 47.

Betley JN, et al. (2015) Neurons for hunger and thirst transmit a negative-valence teaching signal. Nature, 521(7551), 180.