

Resource Summary Report

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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.