

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

B6;129S-Nos1^{tm1.1(cre/ERT2)Zjh/J}

RRID:IMSR_JAX:014541

Type: Organism

Proper Citation

RRID:IMSR_JAX:014541

Organism Information

URL: <https://www.jax.org/strain/014541>

Proper Citation: RRID:IMSR_JAX:014541

Description: Mus musculus with name B6;129S-Nos1^{tm1.1(cre/ERT2)Zjh/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|nitric oxide synthase 1; neuronal; mutant stock: cre/ERT2|Nos1

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|nitric oxide synthase 1; neuronal

Genomic Alteration: targeted mutation 1.1; Z Josh Huang

Catalog Number: JAX:014541

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129S-Nos1^{tm1.1(cre/ERT2)Zjh/J}

Record Creation Time: 20250513T053727+0000

Record Last Update: 20260725T044436+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Nos1^{tm1.1(cre/ERT2)Zjh/J}.

No alerts have been found for B6;129S-Nos1^{tm1.1(cre/ERT2)Zjh/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

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.

Debnath S, et al. (2025) Enteric Neuronal Substrates Underlying Spontaneous and Evoked Neurogenic Contractions in Mouse Colon. *Cellular and molecular gastroenterology and hepatology*, 19(5), 101462.

Chamberland S, et al. (2023) Functional specialization of hippocampal somatostatin-expressing interneurons. *bioRxiv : the preprint server for biology*.

Wang Q, et al. (2023) Regional and cell-type-specific afferent and efferent projections of the mouse claustrum. *Cell reports*, 42(2), 112118.

Nath A, et al. (2023) Layers of inhibitory networks shape receptive field properties of All amacrine cells. *Cell reports*, 42(11), 113390.

Wu YT, et al. (2022) Quantitative relationship between cerebrovascular network and neuronal cell types in mice. *Cell reports*, 39(12), 110978.

Wright CM, et al. (2021) scRNA-Seq Reveals New Enteric Nervous System Roles for GDNF, NRTN, and TBX3. *Cellular and molecular gastroenterology and hepatology*, 11(5), 1548.

Graybuck LT, et al. (2021) Enhancer viruses for combinatorial cell-subclass-specific labeling. *Neuron*, 109(9), 1449.

Lee BR, et al. (2021) Scaled, high fidelity electrophysiological, morphological, and transcriptomic cell characterization. *eLife*, 10.

Yao Z, et al. (2021) A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. *Cell*, 184(12), 3222.

Krawchuk MB, et al. (2020) Optogenetic assessment of VIP, PV, SOM and NOS inhibitory neuron activity and cerebral blood flow regulation in mouse somato-sensory cortex. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 40(7), 1427.

Park SJ, et al. (2020) Connectomic analysis reveals an interneuron with an integral role in the retinal circuit for night vision. *eLife*, 9.

Melo CGS, et al. (2020) Identification of intrinsic primary afferent neurons in mouse jejunum. *Neurogastroenterology and motility : the official journal of the European Gastrointestinal Motility Society*, 32(12), e13989.

Gouwens NW, et al. (2020) Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. *Cell*, 183(4), 935.

Vyas P, et al. (2019) Characterization of transgenic mouse lines for labeling type I and type II afferent neurons in the cochlea. *Scientific reports*, 9(1), 5549.

Williams RH, et al. (2019) Excitation of Cortical nNOS/NK1R Neurons by Hypocretin 1 is Independent of Sleep Homeostasis. *Cerebral cortex (New York, N.Y. : 1991)*, 29(3), 1090.

Gould TW, et al. (2019) Activity within specific enteric neurochemical subtypes is correlated with distinct patterns of gastrointestinal motility in the murine colon. *American journal of physiology. Gastrointestinal and liver physiology*, 317(2), G210.

Zonouzi M, et al. (2019) Individual Oligodendrocytes Show Bias for Inhibitory Axons in the Neocortex. *Cell reports*, 27(10), 2799.

Schulz JM, et al. (2018) Dendrite-targeting interneurons control synaptic NMDA-receptor activation via nonlinear γ -GABAA receptors. *Nature communications*, 9(1), 3576.

Jacoby J, et al. (2018) A Self-Regulating Gap Junction Network of Amacrine Cells Controls Nitric Oxide Release in the Retina. *Neuron*, 100(5), 1149.