Resource Summary Report

Generated by RRID on Jul 29, 2026

B6.129P2-Nos3^{tm1Unc}/J

RRID:IMSR_JAX:002684
Type: Organism

Proper Citation

RRID:IMSR_JAX:002684

Organism Information

URL: https://www.jax.org/strain/002684

Proper Citation: RRID:IMSR_JAX:002684

Description: Mus musculus with name B6.129P2-Nos3^{tm1Unc}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: nitric oxide synthase 3; endothelial cell; mutant strain|congenic strain: Nos3

Affected Gene: nitric oxide synthase 3; endothelial cell

Genomic Alteration: targeted mutation 1; University of North Carolina

Catalog Number: JAX:002684

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2-Nos3^{tm1Unc}/J

Record Creation Time: 20250513T053634+0000

Record Last Update: 20260725T044341+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Nos3^{tm1Unc}/J.

No alerts have been found for B6.129P2-Nos3^{tm1Unc}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 30 mentions in open access literature.

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

Wang HY, et al. (2024) Anoxia-induced hippocampal LTP is regeneratively produced by glutamate and nitric oxide from the neuro-glial-endothelial axis. iScience, 27(4), 109515.

Liu K, et al. (2022) ApoE/NOS3 Knockout Mice as a Novel Cardiovascular Disease Model of Hypertension and Atherosclerosis. Genes, 13(11).

Saxton SN, et al. (2022) Perivascular Adipose Tissue Anticontractile Function Is Mediated by Both Endothelial and Neuronal Nitric Oxide Synthase Isoforms. Journal of vascular research, 59(5), 288.

Kim TK, et al. (2022) 2'-5' oligoadenylate synthetase?like 1 (OASL1) protects against atherosclerosis by maintaining endothelial nitric oxide synthase mRNA stability. Nature communications, 13(1), 6647.

Fonseca FV, et al. (2022) S-nitrosylation is required for ?2AR desensitization and experimental asthma. Molecular cell, 82(16), 3089.

Lai H, et al. (2020) Podocyte and endothelial-specific elimination of BAMBI identifies differential transforming growth factor-? pathways contributing to diabetic glomerulopathy. Kidney international, 98(3), 601.

Peterson JC, et al. (2020) Disturbed nitric oxide signalling gives rise to congenital bicuspid aortic valve and aortopathy. Disease models & mechanisms, 13(9).

Saxton SN, et al. (2020) Interleukin-33 rescues perivascular adipose tissue anticontractile function in obesity. American journal of physiology. Heart and circulatory physiology, 319(6), H1387.

Coulombe P, et al. (2019) Endothelial Sash1 Is Required for Lung Maturation through Nitric Oxide Signaling. Cell reports, 27(6), 1769.

Peterson JC, et al. (2018) Bicuspid aortic valve formation: Nos3 mutation leads to abnormal lineage patterning of neural crest cells and the second heart field. Disease models & mechanisms, 11(10).

Kumar S, et al. (2017) Accelerated atherosclerosis development in C57Bl6 mice by overexpressing AAV-mediated PCSK9 and partial carotid ligation. Laboratory investigation; a journal of technical methods and pathology, 97(8), 935.

Passaro D, et al. (2017) Increased Vascular Permeability in the Bone Marrow Microenvironment Contributes to Disease Progression and Drug Response in Acute Myeloid Leukemia. Cancer cell, 32(3), 324.

Charnock JC, et al. (2016) The impact of a human IGF-II analog ([Leu27]IGF-II) on fetal growth in a mouse model of fetal growth restriction. American journal of physiology. Endocrinology and metabolism, 310(1), E24.

Ha JM, et al. (2016) Regulation of retinal angiogenesis by endothelial nitric oxide synthase signaling pathway. The Korean journal of physiology & pharmacology : official journal of the Korean Physiological Society and the Korean Society of Pharmacology, 20(5), 533.

Perrien DS, et al. (2016) Novel methods for microCT-based analyses of vasculature in the renal cortex reveal a loss of perfusable arterioles and glomeruli in eNOS-/- mice. BMC nephrology, 17, 24.

Lu G, et al. (2015) Myeloid cell-derived inducible nitric oxide synthase suppresses M1 macrophage polarization. Nature communications, 6, 6676.

Lorenz M, et al. (2015) Endothelial NO Production Is Mandatory for Epigallocatechin-3-Gallate-induced Vasodilation: Results From eNOS Knockout (eNOS-/-) Mice. Journal of cardiovascular pharmacology, 65(6), 607.

Morton JS, et al. (2015) The vascular effects of sodium tanshinone IIA sulphonate in rodent and human pregnancy. PloS one, 10(3), e0121897.

Kita T, et al. (2015) Plasma Kallikrein-Kinin System as a VEGF-Independent Mediator of Diabetic Macular Edema. Diabetes, 64(10), 3588.

Gross CM, et al. (2015) Endothelial nitric oxide synthase deficient mice are protected from lipopolysaccharide induced acute lung injury. PloS one, 10(3), e0119918.