

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

B6.129-Asic2^{tm1Wsh}/J

RRID:IMSR_JAX:013126

Type: Organism

Proper Citation

RRID:IMSR_JAX:013126

Organism Information

URL: <https://www.jax.org/strain/013126>

Proper Citation: RRID:IMSR_JAX:013126

Description: Mus musculus with name B6.129-Asic2^{tm1Wsh}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129-Accn1/J

Notes: gene symbol note: acid-sensing ion channel 2; mutant strain|congenic strain: Asic2

Affected Gene: acid-sensing ion channel 2

Genomic Alteration: targeted mutation 1; Michael J Welsh

Catalog Number: JAX:013126

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129-Asic2^{tm1Wsh}/J

Record Creation Time: 20250513T053724+0000

Record Last Update: 20260919T054911+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Asic2^{tm1Wsh}/J.

No alerts have been found for B6.129-Asic2^{tm1Wsh}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Warrington JP, et al. (2025) Considering Litter Effects in Preclinical Research: Evidence from E17.5 Acid-Sensing Ion Channel 2a Knockout Mice Exposed to Acute Seizures. *Brain sciences*, 15(8).

Hamby M, et al. (2025) The impact of Asic2 deletion on metabolic homeostasis in mice. *Physiological reports*, 13(17), e70514.

Wasson R, et al. (2024) Bone marrow monocytes and macrophages from mice lacking ? ENaC and ASIC2 have a reduced chemotactic migration response and polarization. *Physiological reports*, 12(14), e16139.

Yamada A, et al. (2024) ASICs mediate fast excitatory synaptic transmission for tactile discrimination. *Neuron*.

Hamby M, et al. (2024) Mice lacking ASIC2 and ?ENaC are protected from high-fat-diet-induced metabolic syndrome. *Frontiers in endocrinology*, 15, 1449344.

Jones-Muhammad M, et al. (2022) Increased seizure sensitivity in pregnant mice with genetic knockdown of acid sensing ion channel 2a is associated with impaired hippocampal inflammatory response. *Frontiers in physiology*, 13, 983506.

Zha XM, et al. (2022) pH and proton-sensitive receptors in brain ischemia. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 42(8), 1349.

Yang YL, et al. (2021) Citric Acid in Drug Formulations Causes Pain by Potentiating Acid-Sensing Ion Channel 1. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 41(21), 4596.

Jones-Muhammad M, et al. (2021) Acid Sensing Ion Channel 2a Is Reduced in the Reduced Uterine Perfusion Pressure Mouse Model and Increases Seizure Susceptibility in Pregnant Mice. *Cells*, 10(5).

Detweiler ND, et al. (2018) Role of acid-sensing ion channels in hypoxia- and hypercapnia-induced ventilatory responses. *PloS one*, 13(2), e0192724.