Resource Summary Report

Generated by RRID on Jul 31, 2026

B6(SJL)-Piezo2$^{tm1.1(cre)Apat}$/J

RRID:IMSR_JAX:027719
Type: Organism

Proper Citation

RRID:IMSR_JAX:027719

Organism Information

URL: https://www.jax.org/strain/027719

Proper Citation: RRID:IMSR_JAX:027719

Description: Mus musculus with name B6(SJL)-Piezo2$^{tm1.1(cre)Apat}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |piezo-type mechanosensitive ion channel component 2; mutant strain|congenic strain: |Piezo2

Affected Gene: |piezo-type mechanosensitive ion channel component 2

Genomic Alteration: targeted mutation 1.1; Ardem Patapoutian

Catalog Number: JAX:027719

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6(SJL)-Piezo2$^{tm1.1(cre)Apat}$/J

Record Creation Time: 20250513T053801+0000

Record Last Update: 20260725T044507+0000

Ratings and Alerts

No rating or validation information has been found for B6(SJL)-Piezo2$^{tm1.1(cre)Apat}$/J.

No alerts have been found for B6(SJL)-Piezo2$^{tm1.1(cre)Apat}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Wang Z, et al. (2026) An enteric-DRG pathway for interoception and visceral pain in mice. Neuron, 114(1), 105.

Song Y, et al. (2025) Stratification of enterochromaffin cells by single-cell expression analysis. eLife, 12.

Passini FS, et al. (2025) Piezo2 in sensory neurons regulates systemic and adipose tissue metabolism. Cell metabolism, 37(4), 987.

Lopez JA, et al. (2024) Caldendrin Is a Repressor of PIEZO2 Channels and Touch Sensation in Mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(10).

Schappe MS, et al. (2024) A vagal reflex evoked by airway closure. Nature, 627(8005), 830.

Tong CK, et al. (2024) Merkel cells and keratinocytes in oral mucosa are activated by mechanical stimulation. Physiological reports, 12(2), e15826.

Zhang L, et al. (2024) Trigeminal innervation and tactile responses in mouse tongue. Cell reports, 43(9), 114665.

Toma K, et al. (2024) Perivascular neurons instruct 3D vascular lattice formation via neurovascular contact. Cell, 187(11), 2767.

Tiwari N, et al. (2024) Plp1-expresssing perineuronal DRG cells facilitate colonic and somatic chronic mechanical pain involving Piezo2 upregulation in DRG neurons. Cell reports, 43(5), 114230.

Zhang X, et al. (2024) TMC7 functions as a suppressor of Piezo2 in primary sensory neurons blunting peripheral mechanotransduction. Cell reports, 43(4), 114014.

Bornstein B, et al. (2023) Molecular characterization of the intact mouse muscle spindle using a multi-omics approach. eLife, 12.

Servin-Vences MR, et al. (2023) PIEZO2 in somatosensory neurons controls gastrointestinal transit. Cell, 186(16), 3386.

Lyu H, et al. (2022) Niche-mediated repair of airways is directed in an occupant-dependent manner. Cell reports, 41(12), 111863.

Prescott SL, et al. (2020) An Airway Protection Program Revealed by Sweeping Genetic Control of Vagal Afferents. Cell, 181(3), 574.

Michel N, et al. (2020) Maturational Changes in Mouse Cutaneous Touch and Piezo2-Mediated Mechanotransduction. Cell reports, 32(3), 107912.

Zhou T, et al. (2020) Piezo1/2 mediate mechanotransduction essential for bone formation through concerted activation of NFAT-YAP1-??-catenin. eLife, 9.

Acosta MC, et al. (2001) Sensory experiences in humans and single-unit activity in cats evoked by polymodal stimulation of the cornea. The Journal of physiology, 534(Pt. 2), 511.