

Resource Summary Report

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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- β -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.