Resource Summary Report

Generated by RRID on Sep 2, 2026

mPiezo1-IRES-eGFP

RRID:Addgene_80925
Type: Plasmid

Proper Citation

RRID:Addgene_80925

Plasmid Information

URL: http://www.addgene.org/80925

Proper Citation: RRID:Addgene_80925

Insert Name: mouse Piezo1 CDS

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:20813920

Vector Backbone Description: Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: mPiezo1-IRES-eGFP

Record Creation Time: 20220422T222527+0000

Record Last Update: 20260902T050257+0000

Ratings and Alerts

No rating or validation information has been found for mPiezo1-IRES-eGFP.

No alerts have been found for mPiezo1-IRES-eGFP.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Liu X, et al. (2025) Near-Infrared Light-Controlled Dynamic Hydrogel for Modulating Mechanosensitive Ion Channels in 3-Dimensional Environment. Biomaterials research, 29, 0182.

Han Y, et al. (2025) Tissue geometry spatiotemporally drives bacterial infections. Cell, 188(13), 3459.

Ludlow MJ, et al. (2025) PIEZO1 mechanical insensitivity in generalized lymphatic dysplasia with the potential for pharmacological rescue. iScience, 28(8), 113110.

Verkest C, et al. (2025) Cluster nanoarchitecture and structural diversity of PIEZO1 at rest and during activation in intact cells. Science advances, 11(43), eady8052.

Ouyang M, et al. (2024) ?-Catenin and Piezo1 Mediate Cell Mechanical Communication via Cell Adhesions. Biology, 13(5).

Amoakon JP, et al. (2024) Defective CFTR modulates mechanosensitive channels TRPV4 and PIEZO1 and drives endothelial barrier failure. iScience, 27(9), 110703.

Luo M, et al. (2024) High Stretch Associated with Mechanical Ventilation Promotes Piezo1-Mediated Migration of Airway Smooth Muscle Cells. International journal of molecular sciences, 25(3).

Mulhall EM, et al. (2023) Direct observation of the conformational states of PIEZO1. Nature, 620(7976), 1117.

Chuntharpursat-Bon E, et al. (2023) PIEZO1 and PECAM1 interact at cell-cell junctions and partner in endothelial force sensing. Communications biology, 6(1), 358.

Peralta FA, et al. (2023) Optical control of PIEZO1 channels. Nature communications, 14(1), 1269.

Mikesell AR, et al. (2023) Keratinocyte Piezo1 drives paclitaxel-induced mechanical hypersensitivity. bioRxiv : the preprint server for biology.

Chulkov EG, et al. (2023) Use the force, fluke: Ligand-independent gating of Schistosoma mansoni ion channel TRPMPZQ. International journal for parasitology.

Hu J, et al. (2023) Microglial Piezo1 senses A? fibril stiffness to restrict Alzheimer's disease. Neuron, 111(1), 15.

Gong J, et al. (2022) Shear stress activates nociceptors to drive Drosophila mechanical nociception. Neuron, 110(22), 3727.

Li X, et al. (2019) Stimulation of Piezo1 by mechanical signals promotes bone anabolism. eLife, 8.

Shin KC, et al. (2019) The Piezo2 ion channel is mechanically activated by low-threshold positive pressure. Scientific reports, 9(1), 6446.

Zheng W, et al. (2019) A hydrophobic gate in the inner pore helix is the major determinant of inactivation in mechanosensitive Piezo channels. eLife, 8.

Tsuchiya M, et al. (2018) Cell surface flip-flop of phosphatidylserine is critical for PIEZO1-mediated myotube formation. Nature communications, 9(1), 2049.