

Resource Summary Report

Generated by [NIF](#) on Jul 30, 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: 20260725T075225+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 [NIF](#) .

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

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

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

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) β -Catenin and Piezo1 Mediate Cell Mechanical Communication via Cell Adhesions. *Biology*, 13(5).

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).

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

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 β 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.