

Resource Summary Report

Generated by [dkNET](#) on Sep 16, 2026

w[*]; P{w[+mC]=Piezo-GAL4.1.0}III

RRID:BDSC_59266

Type: Organism

Proper Citation

RRID:BDSC_59266

Organism Information

URL: <https://n2t.net/bdsc:59266>

Proper Citation: RRID:BDSC_59266

Description: Drosophila melanogaster with name w[*]; P{w[+mC]=Piezo-GAL4.1.0}III from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Abhishek Chadha & Boaz Cook, Scripps Research Institute

Affected Gene: GAL4, Piezo, w

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 59266

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_59266, BDSC:59266, BL59266

Organism Name: w[*]; P{w[+mC]=Piezo-GAL4.1.0}III

Record Creation Time: 20240911T222911+0000

Record Last Update: 20260912T204058+0000

Ratings and Alerts

No rating or validation information has been found for w[*]; P{w[+mC]=Piezo-GAL4.1.0}III.

No alerts have been found for $w[*]$; $P\{w[+mC]=\text{Piezo-GAL4.1.0}\}$ III.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Suito T, et al. (2026) Ether phospholipids modulate somatosensory responses by tuning multiple receptor functions in *Drosophila*. *iScience*, 29(4), 115209.

Schoofs A, et al. (2024) Serotonergic modulation of swallowing in a complete fly vagus nerve connectome. *Current biology : CB*, 34(19), 4495.

Qin J, et al. (2024) Pharyngeal mechanosensory neurons control food swallow in *Drosophila melanogaster*. *eLife*, 12.

Yoshinari Y, et al. (2024) A high-protein diet-responsive gut hormone regulates behavioral and metabolic optimization in *Drosophila melanogaster*. *Nature communications*, 15(1), 10819.

Stricker AM, et al. (2023) Piezo initiates transient production of collagen IV to repair damaged basement membranes. *bioRxiv : the preprint server for biology*.

Yamanouchi HM, et al. (2023) Piezo-mediated mechanosensation contributes to stabilizing copulation posture and reproductive success in *Drosophila* males. *iScience*, 26(5), 106617.

Yamanouchi HM, et al. (2023) Protocol to investigate the neural basis for copulation posture of *Drosophila* using a closed-loop real-time optogenetic system. *STAR protocols*, 4(4), 102623.

Min S, et al. (2021) Control of feeding by Piezo-mediated gut mechanosensation in *Drosophila*. *eLife*, 10.

McKelvey EGZ, et al. (2021) *Drosophila* females receive male substrate-borne signals through specific leg neurons during courtship. *Current biology : CB*, 31(17), 3894.

Oh Y, et al. (2021) Periphery signals generated by Piezo-mediated stomach stretch and Neuromedin-mediated glucose load regulate the *Drosophila* brain nutrient sensor. *Neuron*, 109(12), 1979.

Zhang L, et al. (2020) Parallel Mechanosensory Pathways Direct Oviposition Decision-Making in *Drosophila*. *Current biology : CB*, 30(16), 3075.

Wang P, et al. (2020) Visceral Mechano-sensing Neurons Control *Drosophila* Feeding by Using Piezo as a Sensor. *Neuron*, 108(4), 640.

He L, et al. (2019) In vivo study of gene expression with an enhanced dual-color fluorescent transcriptional timer. *eLife*, 8.

Chen X, et al. (2018) A Feedforward Mechanism Mediated by Mechanosensitive Ion Channel PIEZO1 and Tissue Mechanics Promotes Glioma Aggression. *Neuron*, 100(4), 799.

He L, et al. (2018) Mechanical regulation of stem-cell differentiation by the stretch-activated Piezo channel. *Nature*, 555(7694), 103.