

# Resource Summary Report

Generated by [NIF](#) on Sep 9, 2026

[w\[\\*\]; P{w\[+m\\*\]=Mef2-GAL4.247}3](#)

RRID:BDSC\_50742

Type: Organism

## Proper Citation

RRID:BDSC\_50742

## Organism Information

**URL:** <https://n2t.net/bdsc:50742>

**Proper Citation:** RRID:BDSC\_50742

**Description:** Drosophila melanogaster with name w[\*]; P{w[+m\*]=Mef2-GAL4.247}3 from BDSC.

**Species:** Drosophila melanogaster

**Notes:** Donor: Tzumin Lee, Howard Hughes Medical Institute, Janelia Research Campus

**Affected Gene:** GAL4, Mef2, w

**Genomic Alteration:** Chromosome 1, Chromosome 3

**Catalog Number:** 50742

**Database:** Bloomington Drosophila Stock Center (BDSC)

**Database Abbreviation:** BDSC

**Availability:** available

**Alternate IDs:** BDSC\_50742, BDSC:50742, BL50742

**Organism Name:** w[\*]; P{w[+m\*]=Mef2-GAL4.247}3

**Record Creation Time:** 20240911T222750+0000

**Record Last Update:** 20260905T140637+0000

## Ratings and Alerts

No rating or validation information has been found for w[\*]; P{w[+m\*]=Mef2-GAL4.247}3.

No alerts have been found for w[\*]; P{w[+m\*]=Mef2-GAL4.247}3.

---

## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** Bloomington Drosophila Stock Center (BDSC)

---

## Usage and Citation Metrics

We found 153 mentions in open access literature.

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

Mallik B, et al. (2026) An ArfGAP-dependent signaling modulates synaptic plasticity via IP3-regulated calcium release from the endoplasmic reticulum. PLoS genetics, 22(1), e1012031.

Miao H, et al. (2025) The foraging gene coordinates brain and heart networks to modulate socially cued interval timing in Drosophila. PLoS genetics, 21(7), e1011752.

Rozenfeld E, et al. (2024) Neuronal circuit mechanisms of competitive interaction between action-based and coincidence learning. Science advances, 10(49), eadq3016.

Vieira Contreras F, et al. (2024) The adhesion G-protein-coupled receptor mayo/CG11318 controls midgut development in Drosophila. Cell reports, 43(1), 113640.

Abubaker MB, et al. (2024) Asymmetric neurons are necessary for olfactory learning in the Drosophila brain. Current biology : CB, 34(5), 946.

Guo Y, et al. (2024) Protocol for affinity purification-mass spectrometry interactome profiling in larvae of Drosophila melanogaster. STAR protocols, 5(2), 103064.

Peng D, et al. (2024) Large-language models facilitate discovery of the molecular signatures regulating sleep and activity. Nature communications, 15(1), 3685.

Dondi C, et al. (2024) The nutrient sensor CRTC and Sarcalumenin/thinman represent an alternate pathway in cardiac hypertrophy. Cell reports, 43(8), 114549.

Bonanno SL, et al. (2024) Constitutive and Conditional Epitope Tagging of Endogenous G-Protein-Coupled Receptors in Drosophila. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(33).

Koh WS, et al. (2023) Regulation of morphogen pathways by a Drosophila chondroitin sulfate proteoglycan Windpipe. Journal of cell science, 136(7).

Birker K, et al. (2023) Mitochondrial MICOS complex genes, implicated in hypoplastic left heart syndrome, maintain cardiac contractility and actomyosin integrity. eLife, 12.

Bonanno SL, et al. (2023) Transcriptional changes in specific subsets of Drosophila neurons following inhibition of the serotonin transporter. Translational psychiatry, 13(1),

Guss EJ, et al. (2023) Loss of the extracellular matrix protein Perlecan disrupts axonal and synaptic stability during *Drosophila* development. *eLife*, 12.

Bonanno SL, et al. (2023) Transcriptional changes in specific subsets of *Drosophila* neurons following inhibition of the serotonin transporter. *Research square*.

Mohamed A, et al. (2023) Mushroom body output neurons MBON-a1/a2 define an odor intensity channel that regulates behavioral odor discrimination learning in larval *Drosophila*. *Frontiers in physiology*, 14, 1111244.

Kim MJ, et al. (2023) Expression of *Drosophila* VDRC GD RNAi lines in larval skeletal muscle often leads to abnormal proteostasis. *microPublication biology*, 2023.

Bengochea M, et al. (2023) Numerical discrimination in *Drosophila melanogaster*. *Cell reports*, 42(7), 112772.

Takakura M, et al. (2023) Differential second messenger signaling via dopamine neurons bidirectionally regulates memory retention. *Proceedings of the National Academy of Sciences of the United States of America*, 120(36), e2304851120.

Sorka?? A, et al. (2023) retro-Tango enables versatile retrograde circuit tracing in *Drosophila*. *eLife*, 12.

Liu Q, et al. (2022) Tom70-based transcriptional regulation of mitochondrial biogenesis and aging. *eLife*, 11.