

Resource Summary Report

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

[w\[*\]; P{w\[+mC\]=Or42a-GAL4.F}48.3B](#)

RRID:BDSC_9970

Type: Organism

Proper Citation

RRID:BDSC_9970

Organism Information

URL: <https://n2t.net/bdsc:9970>

Proper Citation: RRID:BDSC_9970

Description: Drosophila melanogaster with name w[*]; P{w[+mC]=Or42a-GAL4.F}48.3B from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Leslie Vosshall, Rockefeller University

Affected Gene: GAL4, Or42a, w

Genomic Alteration: Chromosome 1, Chromosome 2

Catalog Number: 9970

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_9970, BDSC:9970, BL9970

Organism Name: w[*]; P{w[+mC]=Or42a-GAL4.F}48.3B

Record Creation Time: 20240911T222229+0000

Record Last Update: 20260912T203205+0000

Ratings and Alerts

No rating or validation information has been found for w[*]; P{w[+mC]=Or42a-GAL4.F}48.3B.

No alerts have been found for w[*]; P{w[+mC]=Or42a-GAL4.F}48.3B.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Matsunaga T, et al. (2025) Odorant receptors mediating avoidance of toxic mustard oils in *Drosophila melanogaster* are expanded in herbivorous relatives. *Molecular biology and evolution*.

Matsunaga T, et al. (2024) Odorant receptors tuned to isothiocyanates in *Drosophila melanogaster* and their evolutionary expansion in herbivorous relatives. *bioRxiv* : the preprint server for biology.

Tao L, et al. (2023) Sensorimotor transformation underlying odor-modulated locomotion in walking *Drosophila*. *Nature communications*, 14(1), 6818.

Task D, et al. (2022) Chemoreceptor co-expression in *Drosophila melanogaster* olfactory neurons. *eLife*, 11.

Task D, et al. (2021) Rapid degeneration of *Drosophila* olfactory neurons in Orco mutant maxillary palps. *microPublication biology*, 2021.

Si G, et al. (2019) Structured Odorant Response Patterns across a Complete Olfactory Receptor Neuron Population. *Neuron*, 101(5), 950.

Clark DA, et al. (2018) Tracking *Drosophila* Larval Behavior in Response to Optogenetic Stimulation of Olfactory Neurons. *Journal of visualized experiments* : JoVE(133).

Utashiro N, et al. (2018) Prior activity of olfactory receptor neurons is required for proper sensory processing and behavior in *Drosophila* larvae. *Scientific reports*, 8(1), 8580.

Eliason J, et al. (2018) A GAL80 Collection To Inhibit GAL4 Transgenes in *Drosophila* Olfactory Sensory Neurons. *G3 (Bethesda, Md.)*, 8(11), 3661.