Resource Summary Report

Generated by kravitz2 on Jul 31, 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, BL9970

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

Record Creation Time: 20240911T222229+0000

Record Last Update: 20260725T194913+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 kravitz2 .

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.