

Resource Summary Report

Generated by [RRID](#) on Aug 6, 2026

[w\[*\]; P{w\[+mC\]=UAS-Miro.G}2](#)

RRID:BDSC_51646

Type: Organism

Proper Citation

RRID:BDSC_51646

Organism Information

URL: <https://n2t.net/bdsc:51646>

Proper Citation: RRID:BDSC_51646

Description: Drosophila melanogaster with name w[*]; P{w[+mC]=UAS-Miro.G}2 from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Hugo J. Bellen, Baylor College of Medicine; Donor's Source: Konrad Zinsmaier, University of Arizona

Affected Gene: Miro, UAS, w

Genomic Alteration: Chromosome 1, Chromosome 2

Catalog Number: 51646

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_51646, BL51646

Organism Name: w[*]; P{w[+mC]=UAS-Miro.G}2

Record Creation Time: 20240911T222758+0000

Record Last Update: 20260801T195432+0000

Ratings and Alerts

No rating or validation information has been found for w[*]; P{w[+mC]=UAS-Miro.G}2.

No alerts have been found for w[*]; P{w[+mC]=UAS-Miro.G}2.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Cheng G, et al. (2025) The inter-organelle cross-talk finely orchestrated in the amyloidogenic processing of amyloid precursor protein in dendritic arborization neurons of Drosophila. *Theranostics*, 15(7), 2951.

Sew WQG, et al. (2025) Control of mitochondrial dynamics by the metabolic regulator dPGC1 limits Yorkie-induced oncogenic growth in Drosophila. *PLoS biology*, 23(12), e3003523.

Nemtsova Y, et al. (2023) Compartment specific mitochondrial dysfunction in Drosophila knock-in model of ALS reversed by altered gene expression of OXPHOS subunits and pro-fission factor Drp1. *Molecular and cellular neurosciences*, 125, 103834.

Maddison DC, et al. (2023) COPI-regulated mitochondria-ER contact site formation maintains axonal integrity. *Cell reports*, 42(8), 112883.

Woolums BM, et al. (2020) TRPV4 disrupts mitochondrial transport and causes axonal degeneration via a CaMKII-dependent elevation of intracellular Ca²⁺. *Nature communications*, 11(1), 2679.

Panchal K, et al. (2020) Miro, a Rho GTPase genetically interacts with Alzheimer's disease-associated genes (Tau, A β 42 and A β pl) in Drosophila melanogaster. *Biology open*, 9(9).