

Resource Summary Report

Generated by [dkNET](#) on Sep 6, 2026

[w\[*\]; P{w\[+mC\]=UAS-Drp1.D}3](#)

RRID:BDSC_51647

Type: Organism

Proper Citation

RRID:BDSC_51647

Organism Information

URL: <https://n2t.net/bdsc:51647>

Proper Citation: RRID:BDSC_51647

Description: Drosophila melanogaster with name w[*]; P{w[+mC]=UAS-Drp1.D}3 from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Hugo J. Bellen, Baylor College of Medicine; Donor's Source: Ming Guo, UCLA School of Medicine

Affected Gene: Drp1, UAS, w

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 51647

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_51647, BDSC:51647, BL51647

Organism Name: w[*]; P{w[+mC]=UAS-Drp1.D}3

Record Creation Time: 20240911T222758+0000

Record Last Update: 20260905T140649+0000

Ratings and Alerts

No rating or validation information has been found for w[*]; P{w[+mC]=UAS-Drp1.D}3.

No alerts have been found for w[*]; P{w[+mC]=UAS-Drp1.D}3.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Sarnataro R, et al. (2025) Mitochondrial origins of the pressure to sleep. *Nature*, 645(8081), 722.

Hasan A, et al. (2024) Bcl-2 Orthologues, Buffy and Debcl, Can Suppress Drp1-Dependent Age-Related Phenotypes in Drosophila. *Biomolecules*, 14(9).

Dark C, et al. (2024) Mitochondrial fusion and altered beta-oxidation drive muscle wasting in a Drosophila cachexia model. *EMBO reports*, 25(4), 1835.

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

Qu C, et al. (2022) RhoA/ROCK Signaling Regulates Drp1-Mediated Mitochondrial Fission During Collective Cell Migration. *Frontiers in cell and developmental biology*, 10, 882581.

Avellaneda J, et al. (2021) Myofibril and mitochondria morphogenesis are coordinated by a mechanical feedback mechanism in muscle. *Nature communications*, 12(1), 2091.

Ray A, et al. (2021) A Conserved Role for Asrij/OCIAD1 in Progenitor Differentiation and Lineage Specification Through Functional Interaction With the Regulators of Mitochondrial Dynamics. *Frontiers in cell and developmental biology*, 9, 643444.

Krzystek TJ, et al. (2021) Differential mitochondrial roles for ??-synuclein in DRP1-dependent fission and PINK1/Parkin-mediated oxidation. *Cell death & disease*, 12(9), 796.

Ponte S, et al. (2020) Drp1-mediated mitochondrial fission regulates calcium and F-actin dynamics during wound healing. *Biology open*, 9(5).

Li S, et al. (2020) Altered MICOS Morphology and Mitochondrial Ion Homeostasis Contribute to Poly(GR) Toxicity Associated with C9-ALS/FTD. *Cell reports*, 32(5), 107989.

Zhou J, et al. (2019) Large-scale RNAi screen identified Dhpr as a regulator of mitochondrial morphology and tissue homeostasis. *Science advances*, 5(9), eaax0365.

Bertolin G, et al. (2018) Aurora kinase A localises to mitochondria to control organelle dynamics and energy production. *eLife*, 7.