Resource Summary Report

Generated by dkNET on Aug 24, 2026

y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03230}attP40

RRID:BDSC_51483
Type: Organism

Proper Citation

RRID:BDSC_51483

Organism Information

URL: https://n2t.net/bdsc:51483

Proper Citation: RRID:BDSC_51483

Description: Drosophila melanogaster with name y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03230}attP40 from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Transgenic RNAi Project

Affected Gene: Drp1, UAS, v, y

Genomic Alteration: Chromosome 1, Chromosome 2

Catalog Number: 51483

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_51483, BL51483

Organism Name: y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03230}attP40

Record Creation Time: 20240911T222756+0000

Record Last Update: 20260815T192016+0000

Ratings and Alerts

No rating or validation information has been found for y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03230}attP40.

No alerts have been found for y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03230}attP40.

Data and Source Information

Source: Integrated Animals

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Zhang T, et al. (2025) Metaxin-2 tunes mitochondrial transportation and neuronal function in Drosophila. Genetics, 229(2).

Mallik B, et al. (2025) Mitochondrial Complex I and ROS control neuromuscular function through opposing pre- and postsynaptic mechanisms. PLoS biology, 23(9), e3003388.

Mallik B, et al. (2024) Mitochondrial Complex I and ROS control synapse function through opposing pre- and postsynaptic mechanisms. bioRxiv : the preprint server for biology.

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

Chang YC, et al. (2024) Identification of secretory autophagy as a mechanism modulating activity-induced synaptic remodeling. Proceedings of the National Academy of Sciences of the United States of America, 121(16), e2315958121.

Haynes PR, et al. (2024) A neuron-glia lipid metabolic cycle couples daily sleep to mitochondrial homeostasis. Nature neuroscience, 27(4), 666.

Vue Z, et al. (2023) 3D reconstruction of murine mitochondria reveals changes in structure during aging linked to the MICOS complex. Aging cell, 22(12), e14009.

Townsend LN, et al. (2023) Cdk12 maintains the integrity of adult axons by suppressing actin remodeling. Cell death discovery, 9(1), 348.

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

Katti P, et al. (2022) Identification of evolutionarily conserved regulators of muscle mitochondrial network organization. Nature communications, 13(1), 6622.

Liu P, et al. (2022) mTORC2 protects the heart from high-fat diet-induced cardiomyopathy through mitochondrial fission in Drosophila. Frontiers in cell and developmental biology,

10, 866210.

Amartuvshin O, et al. (2020) Aging shifts mitochondrial dynamics toward fission to promote germline stem cell loss. Aging cell, 19(8), e13191.

Garcez M, et al. (2020) Mitochondrial Dynamics in the Drosophila Ovary Regulates Germ Stem Cell Number, Cell Fate, and Female Fertility. Frontiers in cell and developmental biology, 8, 596819.

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

Chowdhary S, et al. (2020) Mitochondrial morphology and activity regulate furrow ingression and contractile ring dynamics in Drosophila cellularization. Molecular biology of the cell, 31(21), 2331.

Smith GA, et al. (2019) Glutathione S-Transferase Regulates Mitochondrial Populations in Axons through Increased Glutathione Oxidation. Neuron, 103(1), 52.

Rotelli MD, et al. (2019) An RNAi Screen for Genes Required for Growth of Drosophila Wing Tissue. G3 (Bethesda, Md.), 9(10), 3087.

Albrecht D, et al. (2016) Nanoscopic compartmentalization of membrane protein motion at the axon initial segment. The Journal of cell biology, 215(1), 37.