

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

[y\[1\] sc\[*\] v\[1\] sev\[21\]; P{y\[+t7.7\] v\[+t1.8\]=TRiP.HMC03883}attP40](#)

RRID:BDSC_55189

Type: Organism

Proper Citation

RRID:BDSC_55189

Organism Information

URL: <https://n2t.net/bdsc:55189>

Proper Citation: RRID:BDSC_55189

Description: Drosophila melanogaster with name y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03883}attP40 from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Transgenic RNAi Project

Affected Gene: Marf, UAS, sc, sev, v, y

Genomic Alteration: Chromosome 1, Chromosome 2

Catalog Number: 55189

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_55189, BL55189

Organism Name: y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03883}attP40

Record Creation Time: 20240911T222831+0000

Record Last Update: 20260725T195625+0000

Ratings and Alerts

No rating or validation information has been found for y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03883}attP40.

No alerts have been found for y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMC03883}attP40.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 19 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

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

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

Murray-Cors S, et al. (2025) Impacts of mitochondrial dysfunction on axonal microtubule bundles as a potential mechanism of neurodegeneration. Frontiers in neuroscience, 19, 1631752.

Scudese E, et al. (2025) 3D Mitochondrial Structure in Aging Human Skeletal Muscle: Insights Into MFN-2-Mediated Changes. Aging cell, 24(7), e70054.

Richhariya S, et al. (2025) Metabolic rewiring prevents neurodegeneration caused by chronic mitochondrial dysfunction. Current biology : CB, 35(22), 5443.

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.

Byrns CN, et al. (2024) Senescent glia link mitochondrial dysfunction and lipid accumulation. Nature, 630(8016), 475.

Scudese E, et al. (2024) 3D Mitochondrial Structure in Aging Human Skeletal Muscle: Insights into MFN-2 Mediated Changes. bioRxiv : the preprint server for biology.

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.

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.

Lin TH, et al. (2021) TSG101 negatively regulates mitochondrial biogenesis in axons. *Proceedings of the National Academy of Sciences of the United States of America*, 118(20).

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.

Wong KKL, et al. (2020) Hyperpolarized mitochondria accumulate in *Drosophila* Hipk-overexpressing cells to drive tumor-like growth. *Journal of cell science*, 133(23).

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.

Martelli F, et al. (2020) Low doses of the neonicotinoid insecticide imidacloprid induce ROS triggering neurological and metabolic impairments in *Drosophila*. *Proceedings of the National Academy of Sciences of the United States of America*, 117(41), 25840.

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

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.

Cao X, et al. (2017) In vivo imaging reveals mitophagy independence in the maintenance of axonal mitochondria during normal aging. *Aging cell*, 16(5), 1180.