

Resource Summary Report

Generated by [RRID](#) on Aug 4, 2026

[w\[1118\]; P{y\[+t7.7\] w\[+mC\]=GMR27E09-GAL4}attP2](#)

RRID:BDSC_49227

Type: Organism

Proper Citation

RRID:BDSC_49227

Organism Information

URL: <https://n2t.net/bdsc:49227>

Proper Citation: RRID:BDSC_49227

Description: Drosophila melanogaster with name w[1118]; P{y[+t7.7] w[+mC]=GMR27E09-GAL4}attP2 from BDSC.

Species: Drosophila melanogaster

Notes: See https://bdsc.indiana.edu/stocks/gal4/gal4_janelia_info.html for important information. May be segregating TM3, Sb[1]. Donor: Gerald M. Rubin, Howard Hughes Medical Institute, Janelia Research Campus

Affected Gene: Fmr1, GAL4, w

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 49227

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_49227, BL49227

Organism Name: w[1118]; P{y[+t7.7] w[+mC]=GMR27E09-GAL4}attP2

Record Creation Time: 20240911T222740+0000

Record Last Update: 20260801T195406+0000

Ratings and Alerts

No rating or validation information has been found for w[1118]; P{y[+t7.7] w[+mC]=GMR27E09-GAL4}attP2.

No alerts have been found for w[1118]; P{y[+t7.7] w[+mC]=GMR27E09-GAL4}attP2.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Kautzmann S, et al. (2025) Cholinergic and Glutamatergic Axons Differentially Require Glial Support in the Drosophila PNS. *Glia*, 73(7), 1365.

Chien C, et al. (2025) Distinct input-specific mechanisms enable presynaptic homeostatic plasticity. *Science advances*, 11(7), eadr0262.

Crane AB, et al. (2025) A stochastic RNA editing process targets a select number of sites in individual Drosophila glutamatergic motoneurons. *eLife*, 14.

Chen J, et al. (2025) Resolving synaptic events using subsynaptically targeted GCaMP8 variants. *bioRxiv : the preprint server for biology*.

Crane AB, et al. (2024) A stochastic RNA editing process targets a limited number of sites in individual Drosophila glutamatergic motoneurons. *bioRxiv : the preprint server for biology*.

He K, et al. (2023) Physiologic and Nanoscale Distinctions Define Glutamatergic Synapses in Tonic vs Phasic Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(25), 4598.

Jetti SK, et al. (2023) Molecular Logic of Synaptic Diversity Between Drosophila Tonic and Phasic Motoneurons. *bioRxiv : the preprint server for biology*.

Han Y, et al. (2023) Excess glutamate release triggers subunit-specific homeostatic receptor scaling. *Cell reports*, 42(7), 112775.

Jetti SK, et al. (2023) Molecular logic of synaptic diversity between Drosophila tonic and phasic motoneurons. *Neuron*, 111(22), 3554.

Cooney PC, et al. (2023) Neuromuscular basis of Drosophila larval rolling escape behavior. *Proceedings of the National Academy of Sciences of the United States of America*, 120(51), e2303641120.

Han Y, et al. (2022) Botulinum neurotoxin accurately separates tonic vs. phasic transmission and reveals heterosynaptic plasticity rules in *Drosophila*. *eLife*, 11.

Aponte-Santiago NA, et al. (2020) Synaptic Plasticity Induced by Differential Manipulation of Tonic and Phasic Motoneurons in *Drosophila*. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(33), 6270.

Oliva MK, et al. (2020) Endoplasmic Reticulum Lumenal Indicators in *Drosophila* Reveal Effects of HSP-Related Mutations on Endoplasmic Reticulum Calcium Dynamics. *Frontiers in neuroscience*, 14, 816.

Genç Ö, et al. (2020) Homeostatic plasticity fails at the intersection of autism-gene mutations and a novel class of common genetic modifiers. *eLife*, 9.

Genç Ö, et al. (2019) Target-wide Induction and Synapse Type-Specific Robustness of Presynaptic Homeostasis. *Current biology : CB*, 29(22), 3863.

Pérez-Moreno JJ, et al. (2019) GAL4 Drivers Specific for Type Ib and Type Is Motor Neurons in *Drosophila*. *G3 (Bethesda, Md.)*, 9(2), 453.