

Resource Summary Report

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

[w\[1118\]; P{y\[+t7.7\] w\[+mC\]=GMR54C07-GAL4}attP2](#)

RRID:BDSC_50472

Type: Organism

Proper Citation

RRID:BDSC_50472

Organism Information

URL: <https://n2t.net/bdsc:50472>

Proper Citation: RRID:BDSC_50472

Description: Drosophila melanogaster with name w[1118]; P{y[+t7.7] w[+mC]=GMR54C07-GAL4}attP2 from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Gerald M. Rubin, Howard Hughes Medical Institute, Janelia Research Campus

Affected Gene: GAL4, Mdr65, w

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 50472

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_50472, BL50472

Organism Name: w[1118]; P{y[+t7.7] w[+mC]=GMR54C07-GAL4}attP2

Record Creation Time: 20240911T222747+0000

Record Last Update: 20260801T195415+0000

Ratings and Alerts

No rating or validation information has been found for w[1118]; P{y[+t7.7] w[+mC]=GMR54C07-GAL4}attP2.

No alerts have been found for w[1118]; P{y[+t7.7] w[+mC]=GMR54C07-GAL4}attP2.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Matsuno M, et al. (2026) Aberrant dopaminergic activity during consolidation causes age-related memory generalization in Drosophila. PLoS biology, 24(4), e3003752.

Sakr R, et al. (2026) NimA promotes cell adhesion at the blood brain barrier of the Drosophila nervous system. EMBO reports, 27(7), 1648.

Grzeschik NA, et al. (2025) Dysregulation of Glial Gap Junction Protein Innexin2 Mediates Seizures and Disrupted Sleep in a Drosophila Model for North Sea Progressive Myoclonus Epilepsy. Journal of neuroscience research, 103(11), e70087.

Zhu Y, et al. (2025) Loss of dihydroceramide desaturase drives neurodegeneration by disrupting endoplasmic reticulum and lipid droplet homeostasis in glial cells. eLife, 13.

Beachum AN, et al. (2025) Glia Preserve Their Own Functions While Compensating for Neighboring Glial Cell Dysfunction. Glia, 73(12), 2427.

Avila A, et al. (2025) A carnitine transporter at the blood-brain barrier modulates sleep via glial lipid metabolism in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 122(4), e2421178122.

Tenedini FM, et al. (2025) Inflammatory cytokine upd3 induces axon length-dependent synapse removal by glia. Proceedings of the National Academy of Sciences of the United States of America, 122(21), e2422752122.

Zhu Y, et al. (2024) Dihydroceramide desaturase governs endoplasmic reticulum and lipid droplet homeostasis to promote glial function in the nervous system. bioRxiv : the preprint server for biology.

Contreras EG, et al. (2024) The Drosophila blood-brain barrier invades the nervous system in a GPCR-dependent manner. Frontiers in cellular neuroscience, 18, 1397627.

Singh A, et al. (2024) A nutrient responsive lipase mediates gut-brain communication to regulate insulin secretion in Drosophila. Nature communications, 15(1), 4410.

Beachum AN, et al. (2024) Glia multitask to compensate for neighboring glial cell dysfunction. *bioRxiv : the preprint server for biology*.

Lee JY, et al. (2024) Murine glial protrusion transcripts predict localized *Drosophila* glial mRNAs involved in plasticity. *The Journal of cell biology*, 223(10).

Chen Y, et al. (2023) Epilepsy gene *prickle* ensures neuropil glial ensheathment through regulating cell adhesion molecules. *iScience*, 26(1), 105731.

Chang YH, et al. (2023) Endogenous retroviruses and TDP-43 proteinopathy form a sustaining feedback driving intercellular spread of *Drosophila* neurodegeneration. *Nature communications*, 14(1), 966.

Lago-Baldaia I, et al. (2023) A *Drosophila* glial cell atlas reveals a mismatch between transcriptional and morphological diversity. *PLoS biology*, 21(10), e3002328.

Ammer G, et al. (2022) Anatomical distribution and functional roles of electrical synapses in *Drosophila*. *Current biology : CB*, 32(9), 2022.

Vaughen JP, et al. (2022) Glial control of sphingolipid levels sculpts diurnal remodeling in a circadian circuit. *Neuron*, 110(19), 3186.

Davis J, et al. (2022) Vexed mutations promote degeneration of dopaminergic neurons through excessive activation of the innate immune response. *NPJ Parkinson's disease*, 8(1), 147.

Salazar G, et al. (2022) Quantifying Glial-Glial Tiling Using Automated Image Analysis in *Drosophila*. *Frontiers in cellular neuroscience*, 16, 826483.

Weiss S, et al. (2022) Glial ER and GAP junction mediated Ca²⁺ waves are crucial to maintain normal brain excitability. *Glia*, 70(1), 123.