

Resource Summary Report

Generated by [NIF](#) on Sep 15, 2026

[w\[1118\]; P{y\[+t7.7\] w\[+mC\]=GMR54H02-GAL4}attP2](#)

RRID:BDSC_45784

Type: Organism

Proper Citation

RRID:BDSC_45784

Organism Information

URL: <https://n2t.net/bdsc:45784>

Proper Citation: RRID:BDSC_45784

Description: Drosophila melanogaster with name w[1118]; P{y[+t7.7] w[+mC]=GMR54H02-GAL4}attP2 from BDSC.

Species: Drosophila melanogaster

Notes: See https://bdsc.indiana.edu/stocks/gal4/gal4_janelia_info.html for important information. Donor: Gerald M. Rubin, Howard Hughes Medical Institute, Janelia Research Campus

Affected Gene: GAL4, wrapper, w

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 45784

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_45784, BDSC:45784, BL45784

Organism Name: w[1118]; P{y[+t7.7] w[+mC]=GMR54H02-GAL4}attP2

Record Creation Time: 20240911T222729+0000

Record Last Update: 20260912T203842+0000

Ratings and Alerts

No rating or validation information has been found for w[1118]; P{y[+t7.7] w[+mC]=GMR54H02-GAL4}attP2.

No alerts have been found for w[1118]; P{y[+t7.7] w[+mC]=GMR54H02-GAL4}attP2.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Theisen EK, et al. (2026) Lysosomal salvage of neuronal lipids enables glial infiltration of synaptic regions. *Neuron*, 114(12), 2199.

Lee EH, et al. (2026) Starve-Feed Cycles Direct Quiescence to Proliferation Transitions in Drosophila Follicle Stem Cells via Transcriptional Regulation. *bioRxiv* : the preprint server for biology.

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.

Kunduri G, et al. (2025) Light and temperature sensitive seizures are regulated by spatially distinct cortex glial populations in the central nervous system. *bioRxiv* : the preprint server for biology.

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.

Miller VK, et al. (2025) Glia-to-glia serotonin signaling directs MMP-dependent infiltration for experience-dependent synapse pruning. *PLoS biology*, 23(12), e3003524.

Das A, et al. (2025) Peroxisomal import is circadian in glia and regulates sleep and lipid metabolism. *bioRxiv* : the preprint server for biology.

Theisen EK, et al. (2025) Glia phagocytose neuronal sphingolipids to infiltrate developing synapses. *bioRxiv* : the preprint server for biology.

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.

Schmid ET, et al. (2024) Accumulation of F-actin drives brain aging and limits healthspan in *Drosophila*. *Nature communications*, 15(1), 9238.

Baumann NS, et al. (2024) Experience-dependent MAPK/ERK signaling in glia regulates critical period remodeling of synaptic glomeruli. *Cellular signalling*, 120, 111224.

Nelson N, et al. (2024) Experience-dependent glial pruning of synaptic glomeruli during the critical period. *Scientific reports*, 14(1), 9110.

Chen J, et al. (2024) Astrocyte growth is driven by the Tre1/S1pr1 phospholipid-binding G protein-coupled receptor. *Neuron*, 112(1), 93.

Yadav V, et al. (2024) Cut homeodomain transcription factor is a novel regulator of growth and morphogenesis of cortex glia niche around neural cells. *Genetics*, 226(1).

Francis R, et al. (2024) Diverting glial glycolytic flux towards neurons is a memory-relevant role of *Drosophila* CRH-like signalling. *Nature communications*, 15(1), 10467.

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

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

Lones L, et al. (2023) SIK3 and Wnk converge on Fray to regulate glial K⁺ buffering and seizure susceptibility. *PLoS genetics*, 19(1), e1010581.

Alassaf M, et al. (2023) Diet-induced glial insulin resistance impairs the clearance of neuronal debris in *Drosophila* brain. *PLoS biology*, 21(11), e3002359.