

# Resource Summary Report

Generated by [kravitz2](#) on Jul 28, 2026

[w\[1118\]; P{y\[+t7.7\] w\[+mC\]=GMR58E02-lexA}attP40](#)

RRID:BDSC\_52740

Type: Organism

## Proper Citation

RRID:BDSC\_52740

## Organism Information

**URL:** <https://n2t.net/bdsc:52740>

**Proper Citation:** RRID:BDSC\_52740

**Description:** Drosophila melanogaster with name w[1118]; P{y[+t7.7] w[+mC]=GMR58E02-lexA}attP40 from BDSC.

**Species:** Drosophila melanogaster

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

**Affected Gene:** DAT, lexA::p65, w

**Genomic Alteration:** Chromosome 1, Chromosome 2

**Catalog Number:** 52740

**Database:** Bloomington Drosophila Stock Center (BDSC)

**Database Abbreviation:** BDSC

**Availability:** available

**Alternate IDs:** BDSC\_52740, BL52740

**Organism Name:** w[1118]; P{y[+t7.7] w[+mC]=GMR58E02-lexA}attP40

**Record Creation Time:** 20240911T222808+0000

**Record Last Update:** 20260725T195557+0000

## Ratings and Alerts

No rating or validation information has been found for w[1118]; P{y[+t7.7] w[+mC]=GMR58E02-lexA}attP40.

No alerts have been found for w[1118]; P{y[+t7.7] w[+mC]=GMR58E02-lexA}attP40.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** Bloomington Drosophila Stock Center (BDSC)

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## Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Christie KW, et al. (2025) From perception to valence: a pair of interneurons that assign positive valence to sweet sensation in Drosophila. bioRxiv : the preprint server for biology.

Tumkaya T, et al. (2025) Entirely synthetic memory inception via dual optogenetic activation of sensory and dopaminergic neurons. iScience, 28(10), 113540.

Zhou M, et al. (2025) Central clock drives foraging rhythm through modulating food odor attraction in Drosophila. Current biology : CB.

Warnecke C, et al. (2025) Re-exposure to reward re-evaluates related memories. Current biology : CB.

Lozada-Perdomo FV, et al. (2025) Dual roles of Drosophila reward-encoding dopamine neurons in regulating innate and learned behaviors. iScience, 28(11), 113817.

Sun J, et al. (2024) A neurotrophin functioning with a Toll regulates structural plasticity in a dopaminergic circuit. eLife, 13.

Ahmed M, et al. (2023) Hacking brain development to test models of sensory coding. bioRxiv : the preprint server for biology.

Shen P, et al. (2023) Neural circuit mechanisms linking courtship and reward in Drosophila males. Current biology : CB, 33(10), 2034.

Yamazaki D, et al. (2023) Combinatory Actions of Co-transmitters in Dopaminergic Systems Modulate Drosophila Olfactory Memories. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(49), 8294.

Mancini N, et al. (2023) Rewarding Capacity of Optogenetically Activating a Giant GABAergic Central-Brain Interneuron in Larval Drosophila. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(44), 7393.

Kato A, et al. (2023) Dopaminergic neurons dynamically update sensory values during olfactory maneuver. *Cell reports*, 42(10), 113122.

Vrontou E, et al. (2021) Response competition between neurons and antineurons in the mushroom body. *Current biology : CB*, 31(22), 4911.

Zolin A, et al. (2021) Context-dependent representations of movement in *Drosophila* dopaminergic reinforcement pathways. *Nature neuroscience*, 24(11), 1555.

Manjila SB, et al. (2019) Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons. *Current biology : CB*, 29(2), 283.

Dag U, et al. (2019) Neuronal reactivation during post-learning sleep consolidates long-term memory in *Drosophila*. *eLife*, 8.

Handler A, et al. (2019) Distinct Dopamine Receptor Pathways Underlie the Temporal Sensitivity of Associative Learning. *Cell*, 178(1), 60.