

Resource Summary Report

Generated by [RRID](#) on Aug 2, 2026

[y\[1\] w\[*\]; P{w\[+mC\]=Akh-gal4.L}3](#)

RRID:BDSC_25684

Type: Organism

Proper Citation

RRID:BDSC_25684

Organism Information

URL: <https://n2t.net/bdsc:25684>

Proper Citation: RRID:BDSC_25684

Description: Drosophila melanogaster with name y[1] w[*]; P{w[+mC]=Akh-gal4.L}3 from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Jae Park, University of Tennessee, Knoxville

Affected Gene: Akh, GAL4, w, y

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 25684

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_25684, BL25684

Organism Name: y[1] w[*]; P{w[+mC]=Akh-gal4.L}3

Record Creation Time: 20240911T222429+0000

Record Last Update: 20260801T194947+0000

Ratings and Alerts

No rating or validation information has been found for y[1] w[*]; P{w[+mC]=Akh-gal4.L}3.

No alerts have been found for y[1] w[*]; P{w[+mC]=Akh-gal4.L}3.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Okamoto N, et al. (2026) Neuroendocrine control of calcium mobilization in the fruit fly. *Nature*, 649(8095), 122.

Held M, et al. (2025) Aminergic and peptidergic modulation of insulin-producing cells in *Drosophila*. *eLife*, 13.

Ding G, et al. (2025) A tumor-secreted protein utilizes glucagon release to cause host wasting. *Cell discovery*, 11(1), 11.

Zhao Y, et al. (2025) Cardiac neurons expressing a glucagon-like receptor mediate cardiac arrhythmia induced by high-fat diet in *Drosophila*. *bioRxiv : the preprint server for biology*.

Shi Y, et al. (2025) Molecular and neural basis of vomiting behavior in *Drosophila melanogaster*. *Science advances*, 11(37), eadv1143.

Wei Y, et al. (2025) Investigating the immunomodulatory effects of honeybee venom peptide apamin in *Drosophila* platforms. *Infection and immunity*, 93(7), e0013125.

Meschi E, et al. (2024) Compensatory enhancement of input maintains aversive dopaminergic reinforcement in hungry *Drosophila*. *Neuron*, 112(14), 2315.

Yoshinari Y, et al. (2024) A high-protein diet-responsive gut hormone regulates behavioral and metabolic optimization in *Drosophila melanogaster*. *Nature communications*, 15(1), 10819.

Li Y, et al. (2023) Gut AstA mediates sleep deprivation-induced energy wasting in *Drosophila*. *Cell discovery*, 9(1), 49.

Hughson BN, et al. (2022) PKG acts in the adult corpora cardiaca to regulate nutrient stress-responsivity through adipokinetic hormone. *Journal of insect physiology*, 136, 104339.

Kubrak O, et al. (2022) The gut hormone Allatostatin C/Somatostatin regulates food intake and metabolic homeostasis under nutrient stress. *Nature communications*, 13(1), 692.

Ishii K, et al. (2022) A neurogenetic mechanism of experience-dependent suppression of aggression. *Science advances*, 8(36), eabg3203.

Malita A, et al. (2022) A gut-derived hormone suppresses sugar appetite and regulates food choice in *Drosophila*. *Nature metabolism*, 4(11), 1532.

Hughson BN, et al. (2021) AKH Signaling in *D. melanogaster* Alters Larval Development in a Nutrient-Dependent Manner That Influences Adult Metabolism. *Frontiers in physiology*, 12, 619219.

Koyama T, et al. (2021) A nutrient-responsive hormonal circuit mediates an inter-tissue program regulating metabolic homeostasis in adult *Drosophila*. *Nature communications*, 12(1), 5178.

He Q, et al. (2020) AKH-FOXO pathway regulates starvation-induced sleep loss through remodeling of the small ventral lateral neuron dorsal projections. *PLoS genetics*, 16(10), e1009181.

Drelon C, et al. (2019) The histone demethylase KDM5 controls developmental timing in *Drosophila* by promoting prothoracic gland endocycles. *Development (Cambridge, England)*, 146(24).

Megha , et al. (2019) ER-Ca²⁺ sensor STIM regulates neuropeptides required for development under nutrient restriction in *Drosophila*. *PloS one*, 14(7), e0219719.

Setiawan L, et al. (2018) The BMP2/4 ortholog Dpp can function as an inter-organ signal that regulates developmental timing. *Life science alliance*, 1(6), e201800216.

Ohhara Y, et al. (2018) Adult-specific insulin-producing neurons in *Drosophila melanogaster*. *The Journal of comparative neurology*, 526(8), 1351.