

Resource Summary Report

Generated by [NIF](#) on Sep 14, 2026

[y\[1\] w\[*\]; P{w\[+mC\]=Act5C-GAL4}25FO1/CyO, y\[+\]](#)

RRID:BDSC_4414

Type: Organism

Proper Citation

RRID:BDSC_4414

Organism Information

URL: <https://n2t.net/bdsc:4414>

Proper Citation: RRID:BDSC_4414

Description: Drosophila melanogaster with name y[1] w[*]; P{w[+mC]=Act5C-GAL4}25FO1/CyO, y[+] from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Yash Hiromi, National Institute of Genetics

Affected Gene: Act5C, GAL4, w, y

Genomic Alteration: Chromosome 1, Chromosome 2

Catalog Number: 4414

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_4414, BDSC:4414, BL4414

Organism Name: y[1] w[*]; P{w[+mC]=Act5C-GAL4}25FO1/CyO, y[+]

Record Creation Time: 20240911T222143+0000

Record Last Update: 20260912T203101+0000

Ratings and Alerts

No rating or validation information has been found for y[1] w[*]; P{w[+mC]=Act5C-GAL4}25FO1/CyO, y[+].

No alerts have been found for y[1] w[*]; P{w[+mC]=Act5C-GAL4}25FO1/CyO, y[+].

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 209 mentions in open access literature.

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

Nahid MA, et al. (2026) Maternal lipids prime quiescent neural stem cells to reactivate in response to dietary nutrients. bioRxiv : the preprint server for biology.

Töpfer U, et al. (2026) Mmp2 regulates basement membrane remodeling and dedifferentiation of the visceral musculature during Drosophila metamorphosis. Scientific reports, 16(1).

Vihma H, et al. (2026) A dual-reporter mouse for therapeutic discovery in Angelman syndrome. JCI insight, 11(5).

Wang Y, et al. (2026) A bidirectional brain-fat body axis for pathogen avoidance. Neuron.

Hailstock T, et al. (2026) Orb2 RNA-binding activity promotes neural stem cell development and brain growth in Drosophila larvae. Cell reports, 45(7), 117680.

Forrest A, et al. (2026) Reduced expression of the electron transport chain component ATPsyn?L in glutamate neurons changes Drosophila melanogaster sleep patterns through adulthood. microPublication biology, 2026.

Tan FHP, et al. (2026) Geroprotective effects of Salvianolic acid A through redox and detoxification pathway activation in an aging Drosophila Alzheimer's model. Biogerontology, 27(1), 39.

Hopkins T, et al. (2025) Elevated ambient temperature reduces fat storage through the FoxO-mediated insulin signaling pathway. PloS one, 20(2), e0317971.

Abou Daya F, et al. (2025) Identifying links between cardiovascular disease and insomnia by modeling genes from a pleiotropic locus. Disease models & mechanisms, 18(5).

Santillán KYG, et al. (2025) ECM proteins shape topographical patterns in the basement membrane of Drosophila wing discs. Matrix biology : journal of the International Society for Matrix Biology, 140, 78.

Sew WQG, et al. (2025) Control of mitochondrial dynamics by the metabolic regulator dPGC1 limits Yorkie-induced oncogenic growth in *Drosophila*. *PLoS biology*, 23(12), e3003523.

Beginyazova O, et al. (2025) Promoter Specificity and Transcription Levels Modulate Trans-Splicing Efficiency at the *mod(mdg4)* Locus in *Drosophila*. *International journal of molecular sciences*, 26(23).

Blanco Mendana J, et al. (2025) Deterministic genetic barcoding for multiplexed behavioral and single-cell transcriptomic studies. *eLife*, 12.

Duneau D, et al. (2025) A within-host infection model to explore tolerance and resistance. *eLife*, 14.

Ciampelli C, et al. (2025) LRRK2 in *Drosophila Melanogaster* Model: Insights into Cellular Dysfunction and Neuroinflammation in Parkinson's Disease. *International journal of molecular sciences*, 26(5).

Sorianello E, et al. (2025) The translational inhibitor 4EBP/Thor is required for *Drosophila* adaptation to hypoxia. *Scientific reports*, 15(1), 23370.

Beach SJ, et al. (2025) Recombinant venom proteins in insect seminal fluid reduce female lifespan. *Nature communications*, 16(1), 219.

Tahmasebinia F, et al. (2025) The 40S ribosomal subunit recycling complex modulates mitochondrial dynamics and endoplasmic reticulum - mitochondria tethering at mitochondrial fission/fusion hotspots. *Nature communications*, 16(1), 1021.

Lenicke C, et al. (2025) Enhancing autophagy by redox regulation extends lifespan in *Drosophila*. *Nature communications*, 16(1), 5379.

van Rinsum A, et al. (2025) Mitochondria-Targeted Antioxidants Prevent Tachypacing-Induced Contractile Dysfunction in In Vitro Cardiomyocyte and In Vivo *Drosophila* Models of Atrial Fibrillation. *Antioxidants (Basel, Switzerland)*, 14(12).