

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

[y\[1\] w\[1118\]; PBac{y\[+mDint2\] w\[+mC\]=UAS-ChR2.XXL}VK00018](#)

RRID:BDSC_58374

Type: Organism

Proper Citation

RRID:BDSC_58374

Organism Information

URL: <https://n2t.net/bdsc:58374>

Proper Citation: RRID:BDSC_58374

Description: Drosophila melanogaster with name y[1] w[1118]; PBac{y[+mDint2] w[+mC]=UAS-ChR2.XXL}VK00018 from BDSC.

Species: Drosophila melanogaster

Notes: May be segregating CyO, which carries an unknown construct expressing GFP in eyes and ocelli, R.K. Donor: Robert Kittle & Tobias Langenhan, University of Wurzburg

Affected Gene: ChR2-XXL, UAS, w, y

Genomic Alteration: Chromosome 1, Chromosome 2

Catalog Number: 58374

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_58374, BDSC:58374, BL58374

Organism Name: y[1] w[1118]; PBac{y[+mDint2] w[+mC]=UAS-ChR2.XXL}VK00018

Record Creation Time: 20240911T222902+0000

Record Last Update: 20260905T140825+0000

Ratings and Alerts

No rating or validation information has been found for y[1] w[1118]; PBac{y[+mDint2] w[+mC]=UAS-ChR2.XXL}VK00018.

No alerts have been found for y[1] w[1118]; PBac{y[+mDint2] w[+mC]=UAS-ChR2.XXL}VK00018.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Amin F, et al. (2025) Compromising Tyrosine Hydroxylase Function Extends and Blunts the Temporal Profile of Reinforcement by Dopamine Neurons in Drosophila. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(11).

Weber D, et al. (2025) Four individually identified paired dopamine neurons signal taste punishment in larval Drosophila. eLife, 12.

Kim Y, et al. (2025) The potential impact of lipopolysaccharides (LPS) interactions on light-activated ion channels and pumps. microPublication biology, 2025.

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.

Pan G, et al. (2023) Cross-modal modulation gates nociceptive inputs in Drosophila. Current biology : CB, 33(7), 1372.

Hürkey S, et al. (2023) Gap junctions desynchronize a neural circuit to stabilize insect flight. Nature, 618(7963), 118.

Thane M, et al. (2023) High-resolution analysis of individual Drosophila melanogaster larvae uncovers individual variability in locomotion and its neurogenetic modulation. Open biology, 13(4), 220308.

Calvin-Cejudo L, et al. (2023) Neuron-glia interaction at the receptor level affects olfactory perception in adult Drosophila. iScience, 26(1), 105837.

Zanon M, et al. (2022) All-optical manipulation of the Drosophila olfactory system. Scientific reports, 12(1), 8506.

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.

Wiggin TD, et al. (2021) Rest Is Required to Learn an Appetitively-Reinforced Operant Task in *Drosophila*. *Frontiers in behavioral neuroscience*, 15, 681593.

Meloni I, et al. (2020) Controlling the behaviour of *Drosophila melanogaster* via smartphone optogenetics. *Scientific reports*, 10(1), 17614.

de Castro N, et al. (2020) Impedance Measures and a Mounting Technique for *Drosophila*: Larval Movements, Heart Rate, Imaging, and Electrophysiology. *Methods and protocols*, 3(1).

Meda N, et al. (2020) Searching for relief: *Drosophila melanogaster* navigation in a virtual bitter maze. *Behavioural brain research*, 389, 112616.

Hu Y, et al. (2020) A Neural Basis for Categorizing Sensory Stimuli to Enhance Decision Accuracy. *Current biology : CB*, 30(24), 4896.

Weiglein A, et al. (2019) One-trial learning in larval *Drosophila*. *Learning & memory (Cold Spring Harbor, N.Y.)*, 26(4), 109.

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

Lyutova R, et al. (2019) Reward signaling in a recurrent circuit of dopaminergic neurons and peptidergic Kenyon cells. *Nature communications*, 10(1), 3097.

König C, et al. (2019) An optogenetic analogue of second-order reinforcement in *Drosophila*. *Biology letters*, 15(7), 20190084.

Sun J, et al. (2018) Neural Control of Startle-Induced Locomotion by the Mushroom Bodies and Associated Neurons in *Drosophila*. *Frontiers in systems neuroscience*, 12, 6.