

Resource Summary Report

Generated by [RRID](#) on Aug 7, 2026

[w\[*\]; P{w\[+mC\]=ChAT-GAL4.7.4}19B/CyO;
PBac{y\[+mDint2\] w\[+mC\]=20XUAS-IVS-
GCaMP5G}VK00005/TM3, Sb\[1\]](#)

RRID:BDSC_56500

Type: Organism

Proper Citation

RRID:BDSC_56500

Organism Information

URL: <https://n2t.net/bdsc:56500>

Proper Citation: RRID:BDSC_56500

Description: Drosophila melanogaster with name w[*]; P{w[+mC]=ChAT-GAL4.7.4}19B/CyO; PBac{y[+mDint2] w[+mC]=20XUAS-IVS-GCaMP5G}VK00005/TM3, Sb[1] from BDSC.

Species: Drosophila melanogaster

Notes: A recessive S-like mutation may be present on the GAL4 chromosome. Cy[+] &/or Sb[+] homozygotes may be present, K.C. Donor: Balaji Iyengar, Hamilton Health Sciences

Affected Gene: GCaMP5G, UAS, ChAT, GAL4, Sb, w

Genomic Alteration: Chromosome 1, Chromosome 2, Chromosome 3

Catalog Number: 56500

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_56500, BL56500

Organism Name: w[*]; P{w[+mC]=ChAT-GAL4.7.4}19B/CyO; PBac{y[+mDint2] w[+mC]=20XUAS-IVS-GCaMP5G}VK00005/TM3, Sb[1]

Record Creation Time: 20240911T222844+0000

Ratings and Alerts

No rating or validation information has been found for w[*]; P{w[+mC]=ChAT-GAL4.7.4}19B/CyO; PBac{y[+mDint2] w[+mC]=20XUAS-IVS-GCaMP5G}VK00005/TM3, Sb[1].

No alerts have been found for w[*]; P{w[+mC]=ChAT-GAL4.7.4}19B/CyO; PBac{y[+mDint2] w[+mC]=20XUAS-IVS-GCaMP5G}VK00005/TM3, Sb[1].

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Meimoun NS, et al. (2025) GABAergic neurons are a key cell type in a Drosophila model of PARK14/PLA2G6-associated neurodegeneration. *Frontiers in neuroscience*, 19, 1534243.

Hussain R, et al. (2024) Drosophila expressing mutant human KCNT1 transgenes make an effective tool for targeted drug screening in a whole animal model of KCNT1-epilepsy. *Scientific reports*, 14(1), 3357.

Lowe SA, et al. (2024) Modulation of a critical period for motor development in Drosophila by BK potassium channels. *Current biology : CB*, 34(15), 3488.

Mattedi F, et al. (2023) Optogenetic cleavage of the Miro GTPase reveals the direct consequences of real-time loss of function in Drosophila. *PLoS biology*, 21(8), e3002273.

Wu J, et al. (2021) Iterative tomography with digital adaptive optics permits hour-long intravital observation of 3D subcellular dynamics at millisecond scale. *Cell*, 184(12), 3318.

Delventhal R, et al. (2020) A course-based undergraduate research experience examining neurodegeneration in *Drosophila melanogaster* teaches students to think, communicate, and perform like scientists. *PloS one*, 15(4), e0230912.