

Resource Summary Report

Generated by [NIF](#) on Sep 18, 2026

DGRP-427

RRID:BDSC_25193

Type: Organism

Proper Citation

RRID:BDSC_25193

Organism Information

URL: <https://n2t.net/bdsc:25193>

Proper Citation: RRID:BDSC_25193

Description: Drosophila melanogaster with name DGRP-427 from BDSC.

Species: Drosophila melanogaster

Notes: Drosophila Genetic Reference Panel strain - sequenced isogenic reference wild type strain (aka 'Raleigh' or 'Mackay' line), core 40 set. Donor: Trudy Mackay, North Carolina State University

Genomic Alteration: Chromosome wt

Catalog Number: 25193

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_25193, BDSC:25193, BL25193

Organism Name: DGRP-427

Record Creation Time: 20240911T222424+0000

Record Last Update: 20260912T203436+0000

Ratings and Alerts

No rating or validation information has been found for DGRP-427.

No alerts have been found for DGRP-427.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Marconcini M, et al. (2026) Genome-wide association studies identify new candidate genes and tissues underlying resistance to a natural toxin in drosophilids. *G3* (Bethesda, Md.), 16(4).

Bak NK, et al. (2026) Host genetics and diet jointly shape the microbiome of *Drosophila melanogaster* but do not predict lifespan or age-related traits. *Biogerontology*, 27(3).

Novak TE, et al. (2026) Caloric density alters meiotic recombination rate in *Drosophila melanogaster*. *Genetica*, 154(1), 7.

Rivera-Rinc  n N, et al. (2026) Effects of hypoxia and low temperature on female physiology and reproduction of *Drosophila melanogaster*. *bioRxiv : the preprint server for biology*.

Shiran MG, et al. (2026) Efficient RFLP-based Protocol for Routine Authentication of *Drosophila*. *microPublication biology*, 2026.

Sato DX, et al. (2025) Multifaceted and extensive behavioral trajectories of genomically diverse *Drosophila* lines. *Scientific data*, 12(1), 400.

Yamamoto A, et al. (2024) The genetic basis of variation in *Drosophila melanogaster* mating behavior. *iScience*, 27(5), 109837.

Patel SP, et al. (2021) Identification of genetic modifiers of lifespan on a high sugar diet in the *Drosophila* Genetic Reference Panel. *Heliyon*, 7(6), e07153.

Spierer AN, et al. (2021) Natural variation in the regulation of neurodevelopmental genes modifies flight performance in *Drosophila*. *PLoS genetics*, 17(3), e1008887.

Litovchenko M, et al. (2021) Extensive tissue-specific expression variation and novel regulators underlying circadian behavior. *Science advances*, 7(5).

Everett LJ, et al. (2020) Gene expression networks in the *Drosophila* Genetic Reference Panel. *Genome research*, 30(3), 485.

Jacobs J, et al. (2018) The transcription factor Grainy head primes epithelial enhancers for spatiotemporal activation by displacing nucleosomes. *Nature genetics*, 50(7), 1011.

Langley CH, et al. (2012) Genomic variation in natural populations of *Drosophila melanogaster*. *Genetics*, 192(2), 533.