

Resource Summary Report

Generated by [ASWG](#) on Sep 20, 2026

DGRP-301

RRID:BDSC_25175

Type: Organism

Proper Citation

RRID:BDSC_25175

Organism Information

URL: <https://n2t.net/bdsc:25175>

Proper Citation: RRID:BDSC_25175

Description: Drosophila melanogaster with name DGRP-301 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: 25175

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_25175, BDSC:25175, BL25175

Organism Name: DGRP-301

Record Creation Time: 20240911T222424+0000

Record Last Update: 20260919T202809+0000

Ratings and Alerts

No rating or validation information has been found for DGRP-301.

No alerts have been found for DGRP-301.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

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).

Okuyama T, et al. (2026) Genetic heterogeneity alleviates behavioral trade-off between exploration and vigilance in *Drosophila*. *iScience*, 29(6), 116171.

Backlund AE, et al. (2025) Mating status drives fitness trade-offs in exercised female *Drosophila*. *PloS one*, 20(10), e0327080.

Byars ASX, et al. (2025) Unpredictable disturbance and its effects on activity behavior and lifespan in *Drosophila melanogaster*. *Biology open*, 14(7).

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.

Chechenova M, et al. (2023) Quantitative model of aging-related muscle degeneration: a *Drosophila* study. *bioRxiv : the preprint server for biology*.

Tang C, et al. (2022) Genetic dissection of innate immune memory in *Drosophila melanogaster*. *Frontiers in immunology*, 13, 857707.

Buchert SN, et al. (2022) Sleep correlates with behavioral decision making critical for reproductive output in *Drosophila melanogaster*. *Comparative biochemistry and physiology. Part A, Molecular & integrative physiology*, 264, 111114.

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

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.

Chowdhury B, et al. (2021) The Divider Assay is a high-throughput pipeline for aggression analysis in *Drosophila*. *Communications biology*, 4(1), 85.

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.

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