

Resource Summary Report

Generated by [NIF](#) on Sep 9, 2026

w[1118]; P{w[+mC]=UAS-tra.F}20J7

RRID:BDSC_4590

Type: Organism

Proper Citation

RRID:BDSC_4590

Organism Information

URL: <https://n2t.net/bdsc:4590>

Proper Citation: RRID:BDSC_4590

Description: Drosophila melanogaster with name w[1118]; P{w[+mC]=UAS-tra.F}20J7 from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Ralph Greenspan, New York University

Affected Gene: tra, UAS, w

Genomic Alteration: Chromosome 1, Chromosome 2

Catalog Number: 4590

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_4590, BDSC:4590, BL4590

Organism Name: w[1118]; P{w[+mC]=UAS-tra.F}20J7

Record Creation Time: 20240911T222145+0000

Record Last Update: 20260905T135800+0000

Ratings and Alerts

No rating or validation information has been found for w[1118]; P{w[+mC]=UAS-tra.F}20J7.

No alerts have been found for w[1118]; P{w[+mC]=UAS-tra.F}20J7.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Grmai L, et al. (2026) Sexually dimorphic ATF4 expression in the fat confers female stress tolerance in *Drosophila melanogaster*. *Genetics*, 233(2).

Biswas P, et al. (2026) Sex-biased expression of enteroendocrine cell-derived hormones contributes to higher fat storage in *Drosophila* females. *bioRxiv : the preprint server for biology*.

Biswas P, et al. (2025) Insulin/insulin-like growth factor signaling pathway promotes higher fat storage in *Drosophila* females. *Cell reports*, 44(7), 115915.

Deluca A, et al. (2025) Contribution of neurons that express fruitless and Clock transcription factors to behavioral rhythms and courtship. *iScience*, 28(3), 112037.

Davis DS, et al. (2025) Feminization of the Blood-Brain Barrier Changes the Brain Transcriptome of *Drosophila melanogaster* Males. *Current issues in molecular biology*, 47(8).

Harsh S, et al. (2025) Post-transcriptional suppression of the pioneer factor Zelda protects the adult *Drosophila* testis from activation of the ovary program. *PLoS biology*, 23(12), e3003535.

Jin L, et al. (2025) Dietary salt induces taste desensitization via receptor internalization in *Drosophila* in a sexually dimorphic manner. *Molecules and cells*, 48(8), 100242.

Biswas P, et al. (2025) Insulin/insulin-like growth factor signaling pathway promotes higher fat storage in *Drosophila* females. *bioRxiv : the preprint server for biology*.

H??rault C, et al. (2024) Cellular sex throughout the organism underlies somatic sexual differentiation. *Nature communications*, 15(1), 6925.

Grmai L, et al. (2024) Sexually dimorphic ATF4 expression in the fat confers female stress tolerance in *Drosophila melanogaster*. *bioRxiv : the preprint server for biology*.

Diaz AV, et al. (2023) Spenito-dependent metabolic sexual dimorphism intrinsic to fat storage cells. *bioRxiv : the preprint server for biology*.

Landis GN, et al. (2023) Dhr96[1] mutation and maternal tudor[1] mutation increase life span and reduce the beneficial effects of mifepristone in mated female *Drosophila*. *PLoS one*, 18(12), e0292820.

Lee SG, et al. (2023) Taste and pheromonal inputs govern the regulation of time investment for mating by sexual experience in male *Drosophila melanogaster*. *PLoS genetics*, 19(5), e1010753.

Oyeyinka A, et al. (2022) Corazonin Neurons Contribute to Dimorphic Ethanol Sedation Sensitivity in *Drosophila melanogaster*. *Frontiers in neural circuits*, 16, 702901.

Seong KH, et al. (2022) Noncanonical function of the Sex lethal gene controls the protogyny phenotype in *Drosophila melanogaster*. *Scientific reports*, 12(1), 1455.

Regan JC, et al. (2022) Sexual identity of enterocytes regulates autophagy to determine intestinal health, lifespan and responses to rapamycin. *Nature aging*, 2(12), 1145.

Brovero SG, et al. (2021) Investigation of *Drosophila* fruitless neurons that express Dpr/DIP cell adhesion molecules. *eLife*, 10.

Behnke JA, et al. (2021) Repetitive mild head trauma induces activity mediated lifelong brain deficits in a novel *Drosophila* model. *Scientific reports*, 11(1), 9738.

Millington JW, et al. (2021) Female-biased upregulation of insulin pathway activity mediates the sex difference in *Drosophila* body size plasticity. *eLife*, 10.

Chen J, et al. (2021) fruitless tunes functional flexibility of courtship circuitry during development. *eLife*, 10.