

# Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 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.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** Bloomington Drosophila Stock Center (BDSC)

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## Usage and Citation Metrics

We found 23 mentions in open access literature.

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

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.

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).

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

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.