

Resource Summary Report

Generated by [NIF](#) on Aug 27, 2026

FlyFactorSurvey

RRID:SCR_002113

Type: Tool

Proper Citation

FlyFactorSurvey (RRID:SCR_002113)

Resource Information

URL: <http://pgfe.umassmed.edu/ffs/>

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Description: Database of Drosophila transcription factor DNA binding specificity using the bacterial one-hybrid method, DNase I or SELEX methods. The database provides community access to recognition motifs and position weight matrices for transcription factors (TFs), including many unpublished motifs. Search tools and flat file downloads are provided to retrieve binding site information (as sequences, matrices and sequence logos) for individual TFs, groups of TFs or for all TFs with characterized binding specificities. Linked analysis tools allow users to identify motifs within the database that share similarity to a query matrix or to view the distribution of occurrences of an individual motif throughout the Drosophila genome. This database and its associated tools provide computational and experimental biologists with resources to predict interactions between Drosophila TFs and target cis-regulatory sequences.

Abbreviations: FlyFactorSurvey

Resource Type: data or information resource, database

Defining Citation: [PMID:21097781](#)

Keywords: transcription factor, motif, cis-regulatory module, transcription factor binding site, bio.tools

Funding: NHGRI 1R01HG005287-01A1

Availability: Free, Available for download, Freely available

Resource Name: FlyFactorSurvey

Resource ID: SCR_002113

Alternate IDs: biotools:flyfactorsurvey, OMICS_01879

Alternate URLs: <https://bio.tools/flyfactorsurvey>

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260821T193635+0000

Ratings and Alerts

No rating or validation information has been found for FlyFactorSurvey.

No alerts have been found for FlyFactorSurvey.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Roth H, et al. (2026) Regulatory changes underlying the evolution of skylight navigation. *iScience*, 29(7), 116313.

Alizada A, et al. (2025) Transcriptional regulation of the piRNA pathway by Ovo in animal ovarian germ cells. *Genes & development*, 39(3-4), 221.

Drewell RA, et al. (2025) Identification of novel components of the retinal determination gene network in *Drosophila* cell lines. *Open biology*, 15(7), 250012.

Poupault C, et al. (2021) A combinatorial cis-regulatory logic restricts color-sensing Rhodopsins to specific photoreceptor subsets in *Drosophila*. *PLoS genetics*, 17(6), e1009613.

Yamada TG, et al. (2020) Identification of a master transcription factor and a regulatory mechanism for desiccation tolerance in the anhydrobiotic cell line Pv11. *PloS one*, 15(3), e0230218.

Ma Y, et al. (2019) Changes in chromatin accessibility ensure robust cell cycle exit in terminally differentiated cells. *PLoS biology*, 17(9), e3000378.

Kapheim KM, et al. (2019) Draft Genome Assembly and Population Genetics of an Agricultural Pollinator, the Solitary Alkali Bee (*Halictidae*: *Nomia melanderi*). *G3* (Bethesda, Md.), 9(3), 625.

Shokri L, et al. (2019) A Comprehensive *Drosophila melanogaster* Transcription Factor Interactome. *Cell reports*, 27(3), 955.

Park J, et al. (2019) Dissecting the sharp response of a canonical developmental enhancer reveals multiple sources of cooperativity. *eLife*, 8.

Zandvakili A, et al. (2018) Degenerate Pax2 and Senseless binding motifs improve detection of low-affinity sites required for enhancer specificity. *PLoS genetics*, 14(4), e1007289.

Vincent BJ, et al. (2018) Hunchback is counter-repressed to regulate even-skipped stripe 2 expression in *Drosophila* embryos. *PLoS genetics*, 14(9), e1007644.

Vizcaya-Molina E, et al. (2018) Damage-responsive elements in *Drosophila* regeneration. *Genome research*, 28(12), 1852.

Wang X, et al. (2018) Analysis of Genetic Variation Indicates DNA Shape Involvement in Purifying Selection. *Molecular biology and evolution*, 35(8), 1958.

Neto M, et al. (2017) Nuclear receptors connect progenitor transcription factors to cell cycle control. *Scientific reports*, 7(1), 4845.

Castro-Mondragon JA, et al. (2017) RSAT matrix-clustering: dynamic exploration and redundancy reduction of transcription factor binding motif collections. *Nucleic acids research*, 45(13), e119.

Ribeiro L, et al. (2017) Evolution and multiple roles of the Pancrustacea specific transcription factor *zelda* in insects. *PLoS genetics*, 13(7), e1006868.

Khoueiry P, et al. (2017) Uncoupling evolutionary changes in DNA sequence, transcription factor occupancy and enhancer activity. *eLife*, 6.

Koenecke N, et al. (2016) Genome-wide identification of *Drosophila* dorso-ventral enhancers by differential histone acetylation analysis. *Genome biology*, 17(1), 196.

Stroebele E, et al. (2016) Integration of Orthogonal Signaling by the Notch and Dpp Pathways in *Drosophila*. *Genetics*, 203(1), 219.

Ma X, et al. (2015) Reliable scaling of position weight matrices for binding strength comparisons between transcription factors. *BMC bioinformatics*, 16, 265.