

Resource Summary Report

Generated by T1D on Jul 31, 2026

modENCODE

RRID:SCR_006206

Type: Tool

Proper Citation

modENCODE (RRID:SCR_006206)

Resource Information

URL: <http://modencode.org/>

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Description: A comprehensive encyclopedia of genomic functional elements in the model organisms *C. elegans* and *D. melanogaster*. modENCODE is run as a Research Network and the consortium is formed by 11 primary projects, divided between worm and fly, spanning the domains of gene structure, mRNA and ncRNA expression profiling, transcription factor binding sites, histone modifications and replacement, chromatin structure, DNA replication initiation and timing, and copy number variation. The raw and interpreted data from this project is vetted by a data coordinating center (DCC) to ensure consistency and completeness. The entire modENCODE data corpus is now available on the Amazon Web Services EC2 cloud. What this means is that virtual machines and virtual compute clusters that you run within the EC2 cloud can mount the modENCODE data set in whole or in part. Your software can run analyses against the data files directly without experiencing the long waits and logistics associated with copying the datasets over to your local hardware. You may also view the data using GBrowse, Dataset Search, or download the data via FTP, as well as download pre-release datasets.

Abbreviations: modENCODE

Synonyms: NHGRI model organism ENCyclopedia Of DNA Elements, National Human Genome Research Institute model organism ENCyclopedia Of DNA Elements, model organism ENCyclopedia Of DNA Elements

Resource Type: service resource, data set, data analysis service, data or information resource, production service resource, analysis service resource

Defining Citation: [PMID:19536255](#)

Keywords: epigenomics, epigenetics, genomics, functional element, model organism, genome, copy number variation, gene structure, genome sequence, histone modification, histone replacement, chromatin binding site, expression profiling, replication, transcription

factor binding site, transcription factor, binding site, chromatin, rna, expression profiling, regulatory network, mrna, ncrna, dna replication, genotype

Funding: NHGRI

Availability: Public, With some restrictions on its use for 9 months following publication, Acknowledgement requested

Resource Name: modENCODE

Resource ID: SCR_006206

Alternate IDs: nlx_151752

Record Creation Time: 20220129T080234+0000

Record Last Update: 20260731T042720+0000

Ratings and Alerts

No rating or validation information has been found for modENCODE.

No alerts have been found for modENCODE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 255 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Ostalé CM, et al. (2025) A function of Spalt proteins in heterochromatin organization and maintenance of genomic DNA integrity. *Development (Cambridge, England)*, 152(10).

Kinney B, et al. (2025) FLYWCH transcription factors act in a LIN-42/Period autoregulatory loop during gonad migration in *C. elegans*. *bioRxiv : the preprint server for biology*.

Yheskel M, et al. (2025) Local chromatin context informs transcriptional outcomes for the histone demethylase KDM5. *Epigenetics & chromatin*, 18(1), 78.

Yin J, et al. (2025) Glia-derived noncanonical fatty acid binding protein modulates brain lipid storage and clearance. *Science advances*, 11(31), eadv2902.

Varoqui M, et al. (2025) Temporal and spatial niche partitioning in a retrotransposon community of the *Drosophila melanogaster* genome. *Nucleic acids research*, 53(11).

Funk OH, et al. (2025) Epidermal cell fusion promotes the transition from an embryonic to a larval transcriptome in *C. elegans*. *Development (Cambridge, England)*, 152(24).

Sklias A, et al. (2024) Comprehensive map of ribosomal 2'-O-methylation and C/D box snoRNAs in *Drosophila melanogaster*. *Nucleic acids research*, 52(6), 2848.

Vergani-Junior CA, et al. (2024) An Intricate Network Involving the Argonaute ALG-1 Modulates Organismal Resistance to Oxidative Stress. *Nature communications*, 15(1), 3070.

Whittle CA, et al. (2024) Gene Protein Sequence Evolution Can Predict the Rapid Divergence of Ovariole Numbers in the *Drosophila melanogaster* Subgroup. *Genome biology and evolution*, 16(7).

Sepulveda GP, et al. (2024) DOT1L stimulates MYC/Mondo transcription factor activity by promoting its degradation cycle on chromatin. *bioRxiv : the preprint server for biology*.

Brown JC, et al. (2024) Lysine-36 of *Drosophila* histone H3.3 supports adult longevity. *G3 (Bethesda, Md.)*, 14(4).

Li Z, et al. (2024) Exportin-5 binding precedes 5'- and 3'-end processing of tRNA precursors in *Drosophila*. *The Journal of biological chemistry*, 300(9), 107632.

Bollepogu Raja KK, et al. (2024) Integrative genomic analyses reveal putative cell type-specific targets of the *Drosophila* ets transcription factor Pointed. *BMC genomics*, 25(1), 103.

Lv P, et al. (2024) The CoREST complex regulates multiple histone modifications temporal-specifically in clock neurons. *Open biology*, 14(7), 230355.

Yin J, et al. (2024) Glia-derived secretory fatty acid binding protein Obp44a regulates lipid storage and efflux in the developing *Drosophila* brain. *bioRxiv : the preprint server for biology*.

Gómez Ortega J, et al. (2023) Biosynthetic constraints on amino acid synthesis at the base of the food chain may determine their use in higher-order consumer genomes. *PLoS genetics*, 19(2), e1010635.

Chandrasekhara C, et al. (2023) A single N-terminal amino acid determines the distinct roles of histones H3 and H3.3 in the *Drosophila* male germline stem cell lineage. *PLoS biology*, 21(5), e3002098.

Han D, et al. (2023) BRWD3 promotes KDM5 degradation to maintain H3K4 methylation levels. *bioRxiv : the preprint server for biology*.

Johnson LC, et al. (2023) NHR-23 activity is necessary for *C. elegans* developmental progression and apical extracellular matrix structure and function. *Development (Cambridge, England)*, 150(10).

Alexander KD, et al. (2023) The homeodomain transcriptional regulator DVE-1 directs a program for synapse elimination during circuit remodeling. *Nature communications*, 14(1), 7520.