

Resource Summary Report

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GenePaint

RRID:SCR_003015

Type: Tool

Proper Citation

GenePaint (RRID:SCR_003015)

Resource Information

URL: <http://www.genepaint.org>

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Description: Digital atlas of gene expression patterns in developing and adult mouse. Several reference atlases are also available through this site. Expression patterns are determined by non-radioactive in situ hybridization on serial tissue sections. Sections are available from several developmental ages: E10.5, E14.5 (whole embryos), E15.5, P7 and P56 (brains only). To retrieve expression patterns, search by gene name, site of expression, GenBank accession number or sequence homology. For viewing expression patterns, GenePaint.org features virtual microscope tool that enables zooming into images down to cellular resolution.

Abbreviations: GenePaint.org

Synonyms: Atlas of Gene Expression Patterns in Mouse Embryo

Resource Type: atlas, data or information resource, database, expression atlas, reference atlas

Defining Citation: [PMID:14681479](#), [PMID:22936000](#)

Keywords: gene expression, adult mouse, annotated, c57bl6, mouse, mouse embryo, mrna, non radioactive in situ hybridization, light microscopy, molecular neuroanatomy resource, in situ hybridization, embryonic, postnatal, adult, brain, head, annotation, rna probe, sequence, anatomical structure, FASEB list

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Resource Name: GenePaint

Resource ID: SCR_003015

Alternate IDs: nif-0000-00009, SCR_017526

Record Creation Time: 20220129T080216+0000

Record Last Update: 20260905T132456+0000

Ratings and Alerts

No rating or validation information has been found for GenePaint.

No alerts have been found for GenePaint.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 164 mentions in open access literature.

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

Stifter SA, et al. (2026) XPR1 regulates fetal liver macrophage development, identity, and pyrenocyte clearance. The Journal of experimental medicine, 223(2).

Min S, et al. (2025) Optical genome mapping uncovers clinically relevant structural variants in congenital heart disease with heterotaxy. Frontiers in genetics, 16, 1673539.

Otoshi T, et al. (2025) Genetic background and transient prenatal disruption of vitamin A signaling determine susceptibility to airway hyperresponsiveness in mice. bioRxiv : the preprint server for biology.

Rathjen FG, et al. (2023) The IgSF Cell Adhesion Protein CLMP and Congenital Short Bowel Syndrome (CSBS). International journal of molecular sciences, 24(6).

Yin Y, et al. (2023) Development of an in-vitro high-throughput screening system to identify modulators of genitalia development. PNAS nexus, 2(1), pgac300.

Han Y, et al. (2023) Identification of a GABAergic neural circuit governing leptin signaling deficiency-induced obesity. eLife, 12.

Li J, et al. (2021) Integrative genomic analysis of early neurogenesis reveals a temporal genetic program for differentiation and specification of preplate and Cajal-Retzius neurons. PLoS genetics, 17(3), e1009355.

Casanovas S, et al. (2020) Rbfox1 Is Expressed in the Mouse Brain in the Form of Multiple Transcript Variants and Contains Functional E Boxes in Its Alternative Promoters. *Frontiers in molecular neuroscience*, 13, 66.

Arimura N, et al. (2020) DSCAM regulates delamination of neurons in the developing midbrain. *Science advances*, 6(36).

DeSisto J, et al. (2020) Single-Cell Transcriptomic Analyses of the Developing Meninges Reveal Meningeal Fibroblast Diversity and Function. *Developmental cell*, 54(1), 43.

Ljungberg MC, et al. (2019) Spatial distribution of marker gene activity in the mouse lung during alveolarization. *Data in brief*, 22, 365.

Guerriero I, et al. (2019) Exploring the Molecular Crosstalk between Pancreatic Bud and Mesenchyme in Embryogenesis: Novel Signals Involved. *International journal of molecular sciences*, 20(19).

Li J, et al. (2019) Application of Computational Biology to Decode Brain Transcriptomes. *Genomics, proteomics & bioinformatics*, 17(4), 367.

Ye B, et al. (2019) Opposing roles of TCF7/LEF1 and TCF7L2 in cyclin D2 and Bmp4 expression and cardiomyocyte cell cycle control during late heart development. *Laboratory investigation; a journal of technical methods and pathology*, 99(6), 807.

Bonnefont J, et al. (2019) Cortical Neurogenesis Requires Bcl6-Mediated Transcriptional Repression of Multiple Self-Renewal-Promoting Extrinsic Pathways. *Neuron*, 103(6), 1096.

Wang Q, et al. (2019) De Novo Germline Mutations in SEMA5A Associated With Infantile Spasms. *Frontiers in genetics*, 10, 605.

Grassi E, et al. (2018) Choice of Alternative Polyadenylation Sites, Mediated by the RNA-Binding Protein Elavl3, Plays a Role in Differentiation of Inhibitory Neuronal Progenitors. *Frontiers in cellular neuroscience*, 12, 518.

Burn SF, et al. (2018) Postimplantation Mga expression and embryonic lethality of two gene-trap alleles. *Gene expression patterns : GEP*, 27, 31.

Sokpor G, et al. (2018) ATP-Dependent Chromatin Remodeling During Cortical Neurogenesis. *Frontiers in neuroscience*, 12, 226.

Quezada-Ramirez MA, et al. (2018) The Growth arrest specific 1 (Gas1) gene is transcriptionally regulated by NeuroD1 via two distal E-boxes. *Experimental cell research*, 363(2), 332.