# Resource Summary Report

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## VisiGene Image Browser

RRID:SCR_003341
Type: Tool

### Proper Citation

VisiGene Image Browser (RRID:SCR_003341)

### Resource Information

**URL:** http://genome.ucsc.edu/cgi-bin/hgVisiGene

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**Description:** Virtual microscope for viewing in situ images that show where a gene is used in an organism, sometimes down to cellular resolution. The user can examine cell-by-cell as well as tissue-by-tissue expression patterns. Users can retrieve images that meet specific search criteria, then interactively zoom and scroll across the collection. Image set contributions are welcome. The following image collections are currently available for browsing: * High-quality high-resolution images of eight-week-old male mouse sagittal brain slices with reverse-complemented mRNA hybridization probes from the Allen Brain Atlas, courtesy of the Allen Institute for Brain Science * Mouse in situ images from the Jackson Lab Gene Expression Database (GXD) at MGI * Transcription factors in mouse embryos from the Mahoney Center for Neuro-Oncology * Mouse head and brain in situ images from NCBI""s Gene Expression Nervous System Atlas (GENSAT) database * Xenopus laevis in situ images from the National Institute for Basic Biology (NIBB) XDB project

**Abbreviations:** VisiGene

**Resource Type:** image collection, data repository, data or information resource, storage service resource, service resource, data analysis service, analysis service resource, database, production service resource, image repository

**Defining Citation:** PMID:18996895, PMID:17142222

**Keywords:** molecular neuroanatomy resource, midbrain, brain, in situ, gene, theiler stage, visualization, cellular resolution, mrna hybridization, in situ hybridization, male, nieuwkoop, faber stage, gene expression, embryonic mouse, adult mouse

**Funding:**

**Resource Name:** VisiGene Image Browser

**Resource ID:** SCR_003341

**Alternate IDs:** nif-0000-00198

**Record Creation Time:** 20220129T080218+0000

**Record Last Update:** 20250421T053352+0000

## Ratings and Alerts

No rating or validation information has been found for VisiGene Image Browser.

No alerts have been found for VisiGene Image Browser.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 58 mentions in open access literature.

**Listed below are recent publications.** The full list is available at NIF.

Richard D, et al. (2020) Evolutionary Selection and Constraint on Human Knee Chondrocyte Regulation Impacts Osteoarthritis Risk. Cell, 181(2), 362.

Zhou X, et al. (2018) Long-Term l-Serine Administration Reduces Food Intake and Improves Oxidative Stress and Sirt1/NF?B Signaling in the Hypothalamus of Aging Mice. Frontiers in endocrinology, 9, 476.

Logan CM, et al. (2018) Functional role for stable microtubules in lens fiber cell elongation. Experimental cell research, 362(2), 477.

Chen X, et al. (2017) MicroRNA-26a and -26b inhibit lens fibrosis and cataract by negatively regulating Jagged-1/Notch signaling pathway. Cell death and differentiation, 24(8), 1431.

Guo M, et al. (2017) Epigenetic profiling of growth plate chondrocytes sheds insight into regulatory genetic variation influencing height. eLife, 6.

Wiese CB, et al. (2017) Migration pathways of sacral neural crest during development of lower urogenital tract innervation. Developmental biology, 429(1), 356.

Capellini TD, et al. (2017) Ancient selection for derived alleles at a GDF5 enhancer influencing human growth and osteoarthritis risk. Nature genetics, 49(8), 1202.

Chen H, et al. (2016) Heads, Shoulders, Elbows, Knees, and Toes: Modular Gdf5 Enhancers Control Different Joints in the Vertebrate Skeleton. PLoS genetics, 12(11), e1006454.

Alvarez-Saavedra M, et al. (2016) Voluntary Running Triggers VGF-Mediated Oligodendrogenesis to Prolong the Lifespan of Snf2h-Null Ataxic Mice. Cell reports, 17(3), 862.

Gulsen T, et al. (2016) Truncated RASSF7 promotes centrosomal defects and cell death. Developmental biology, 409(2), 502.

Fukushima S, et al. (2015) Robust increase of microglia proliferation in the fornix of hippocampal axonal pathway after a single LPS stimulation. Journal of neuroimmunology, 285, 31.

Polk RC, et al. (2015) The pattern of congenital heart defects arising from reduced Tbx5 expression is altered in a Down syndrome mouse model. BMC developmental biology, 15, 30.

Fukushima S, et al. (2015) Oligodendrogenesis in the fornix of adult mouse brain; the effect of LPS-induced inflammatory stimulation. Brain research, 1627, 52.

Senn V, et al. (2014) Long-range connectivity defines behavioral specificity of amygdala neurons. Neuron, 81(2), 428.

Evrard A, et al. (2013) Regulation of the heat stress response in Arabidopsis by MPK6-targeted phosphorylation of the heat stress factor HsfA2. PeerJ, 1, e59.

Pirraglia C, et al. (2013) Rac1 GTPase acts downstream of ?PS1?PS integrin to control collective migration and lumen size in the Drosophila salivary gland. Developmental biology, 377(1), 21.

Yip DJ, et al. (2012) Snf2l regulates Foxg1-dependent progenitor cell expansion in the developing brain. Developmental cell, 22(4), 871.

Patten SA, et al. (2012) Role of Chd7 in zebrafish: a model for CHARGE syndrome. PloS one, 7(2), e31650.

Dwyer CA, et al. (2012) RPTP?/phosphacan is abnormally glycosylated in a model of muscle-eye-brain disease lacking functional POMGnT1. Neuroscience, 220, 47.

Kullmann JA, et al. (2012) Purkinje cell loss and motor coordination defects in profilin1 mutant mice. Neuroscience, 223, 355.