Resource Summary Report

Generated by RRID on Apr 11, 2025

Vertebrate Homology

RRID:SCR_017517
Type: Tool

Proper Citation

Vertebrate Homology (RRID:SCR_017517)

Resource Information

URL: http://www.informatics.jax.org/homology.shtml

Proper Citation: Vertebrate Homology (RRID:SCR_017517)

Description: MGI contains homology information for mouse, human, rat, chimp, dog and other species. Complete set of human, chimpanzee, rhesus macaque, dog, cattle, rat, chicken, western clawed frog and zebrafish Homology Classes for mouse genes. Report includes Chromosome and EntrezGene and OMIM IDs. Report of Human and Mouse Homology Classes sorted by HomoloGene ID includes associated nucleotide and protein sequences, Chromosome and OMIM IDs. Report of Human and Mouse Homology with phenotype annotations. Several additional MGI reports are available, including those for Gene Ontology, Phenotypes and Nomenclature.

Resource Type: data or information resource, service resource

Keywords: Homology, class, mouse, human, rat, chimp, dog, rhesus macaque, cattle, chicken, zebrafish, frog

Funding:

Availability: Free, Available for download, Freely available

Resource Name: Vertebrate Homology

Resource ID: SCR_017517

Record Creation Time: 20220129T080335+0000

Record Last Update: 20250410T070849+0000

Ratings and Alerts

No rating or validation information has been found for Vertebrate Homology.

No alerts have been found for Vertebrate Homology.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Hagenauer MH, et al. (2024) Resource: A curated database of brain-related functional gene sets (Brain.GMT). MethodsX, 13, 102788.

Yasumizu Y, et al. (2024) Single-cell transcriptome landscape of circulating CD4+ T cell populations in autoimmune diseases. Cell genomics, 4(2), 100473.

Soto DC, et al. (2024) Gene expansions contributing to human brain evolution. bioRxiv : the preprint server for biology.

Petroff RL, et al. (2024) Translational toxicoepigenetic Meta-Analyses identify homologous gene DNA methylation reprogramming following developmental phthalate and lead exposure in mouse and human offspring. Environment international, 186, 108575.

Hagenauer MH, et al. (2024) Resource: A Curated Database of Brain-Related Functional Gene Sets (Brain.GMT). bioRxiv : the preprint server for biology.

Oommen AM, et al. (2024) Profiling muscle transcriptome in mice exposed to microgravity using gene set enrichment analysis. NPJ microgravity, 10(1), 94.

Freshour SL, et al. (2023) Endothelial cells are a key target of IFN-g during response to combined PD-1/CTLA-4 ICB treatment in a mouse model of bladder cancer. bioRxiv : the preprint server for biology.

Zhang B, et al. (2023) A human embryonic limb cell atlas resolved in space and time. Nature.

Zhang M, et al. (2023) Neuronal Histone Methyltransferase EZH2 Regulates Neuronal Morphogenesis, Synaptic Plasticity, and Cognitive Behavior in Mice. Neuroscience bulletin, 39(10), 1512.

Wang X, et al. (2023) The FSH-mTOR-CNP signaling axis initiates follicular antrum formation by regulating tight junction, ion pumps, and aquaporins. The Journal of biological

chemistry, 299(8), 105015.

Cho H, et al. (2023) Adnp-mutant mice with cognitive inflexibility, CaMKII? hyperactivity, and synaptic plasticity deficits. Molecular psychiatry, 28(8), 3548.

Sacharidou A, et al. (2023) Endothelial ER? promotes glucose tolerance by enhancing endothelial insulin transport to skeletal muscle. Nature communications, 14(1), 4989.

Wang Y, et al. (2023) Diverse evolutionary rates and gene duplication patterns among families of functional olfactory receptor genes in humans. PloS one, 18(4), e0282575.

Tsitsou-Kampeli A, et al. (2023) Cholesterol 24-hydroxylase at the choroid plexus contributes to brain immune homeostasis. Cell reports. Medicine, 4(11), 101278.

Oommen AM, et al. (2023) Transcriptomic Analysis of Glycosylation and Neuroregulatory Pathways in Rodent Models in Response to Psychedelic Molecules. International journal of molecular sciences, 24(2).

Baron F, et al. (2023) The importance of m6A topology in chicken embryo mRNA: a precise mapping of m6A at the conserved chicken ?-actin zipcode. RNA (New York, N.Y.), 29(6), 777.

Cao S, et al. (2023) Single-cell RNA sequencing reveals the developmental program underlying proximal-distal patterning of the human lung at the embryonic stage. Cell research, 33(6), 421.

Park G, et al. (2023) Dysregulation of the Wnt/?-catenin signaling pathway via Rnf146 upregulation in a VPA-induced mouse model of autism spectrum disorder. Experimental & molecular medicine, 55(8), 1783.

Bai Y, et al. (2022) scMAPA: Identification of cell-type-specific alternative polyadenylation in complex tissues. GigaScience, 11.

Kim H, et al. (2022) Early postnatal serotonin modulation prevents adult-stage deficits in Arid1b-deficient mice through synaptic transcriptional reprogramming. Nature communications, 13(1), 5051.