Resource Summary Report

Generated by RRID on May 25, 2025

Mammalian Gene Collection

RRID:SCR_007024
Type: Tool

Proper Citation

Mammalian Gene Collection (RRID:SCR_007024)

Resource Information

URL: http://mgc.nci.nih.gov/

Proper Citation: Mammalian Gene Collection (RRID:SCR_007024)

Description: NIH initiative project to provide full-length open reading frame (FL-ORF) clones for human, mouse, and rat genes, cow. MGC cDNA clones were obtained by screening of cDNA libraries, by transcript-specific RT-PCR cloning, and by DNA synthesis of cDNA inserts. All MGC sequences are deposited in GenBank and clones can be purchased from distributors of IMAGE consortium. With conclusion of MGC project in March 2009, GenBank records of MGC sequences will be frozen, without further updates. Since definition of what constitutes full-length coding region for some of genes and transcripts for which they have MGC clones will likely change in future, users planning to order MGC clones will need to monitor for these changes. Users can make use of genome browsers and gene-specific databases, such as the UCSC Genome browser, NCBI's Map Viewer, and Entrez Gene, to view relevant regions of genome (browsers) or gene-related information (Entrez Gene).

Abbreviations: MGC

Synonyms: Mammalian Gene Collection

Resource Type: material resource, biomaterial supply resource, cell repository

Keywords: cell line, cdna, frozen, clone, vector, gene, open reading frame, sequence, expressed sequence tag, bio.tools, FASEB list

Funding: NIH Blueprint for Neuroscience Research

Availability: Free, Freely available

Resource Name: Mammalian Gene Collection

Resource ID: SCR_007024

Alternate IDs: biotools:mammalian_gene_collection, nif-0000-00195

Alternate URLs: https://bio.tools/mammalian_gene_collection

Record Creation Time: 20220129T080239+0000

Record Last Update: 20250525T032041+0000

Ratings and Alerts

No rating or validation information has been found for Mammalian Gene Collection.

No alerts have been found for Mammalian Gene Collection.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 46 mentions in open access literature.

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

Virk SM, et al. (2024) Transcriptomic Analysis Identifies Candidate Genes for Differential Expression during Xenopus laevis Inner Ear Development. bioRxiv : the preprint server for biology.

Chang FW, et al. (2017) Estrogen Enhances the Expression of the Multidrug Transporter Gene ABCG2-Increasing Drug Resistance of Breast Cancer Cells through Estrogen Receptors. International journal of molecular sciences, 18(1).

Wang G, et al. (2015) PAK1 regulates RUFY3-mediated gastric cancer cell migration and invasion. Cell death & disease, 6(3), e1682.

Stanley CM, et al. (2015) Importance of the Voltage Dependence of Cardiac Na/K ATPase Isozymes. Biophysical journal, 109(9), 1852.

Pappas JJ, et al. (2014) The multidrug resistance 1 gene Abcb1 in brain and placenta: comparative analysis in human and guinea pig. PloS one, 9(10), e111135.

Yamane-Sando Y, et al. (2014) Fpk1/2 kinases regulate cellular sphingoid long-chain base

abundance and alter cellular resistance to LCB elevation or depletion. MicrobiologyOpen, 3(2), 196.

Opaluch AM, et al. (2014) Positive regulation of TRAF6-dependent innate immune responses by protein phosphatase PP1-?. PloS one, 9(2), e89284.

Goulas T, et al. (2014) The pCri System: a vector collection for recombinant protein expression and purification. PloS one, 9(11), e112643.

Striebinger H, et al. (2013) A high-throughput yeast two-hybrid protocol to determine virus-host protein interactions. Methods in molecular biology (Clifton, N.J.), 1064, 1.

Florea L, et al. (2013) Thousands of exon skipping events differentiate among splicing patterns in sixteen human tissues. F1000Research, 2, 188.

Urbé S, et al. (2012) Systematic survey of deubiquitinase localization identifies USP21 as a regulator of centrosome- and microtubule-associated functions. Molecular biology of the cell, 23(6), 1095.

Hou ZC, et al. (2012) Elephant transcriptome provides insights into the evolution of eutherian placentation. Genome biology and evolution, 4(5), 713.

Garbuz DG, et al. (2011) Functional organization of hsp70 cluster in camel (Camelus dromedarius) and other mammals. PloS one, 6(11), e27205.

Rauschendorf MA, et al. (2011) Complex transcriptional control of the AZFa gene DDX3Y in human testis. International journal of andrology, 34(1), 84.

Akagi T, et al. (2011) Caspase-8 cleavage of the interleukin-21 (IL-21) receptor is a negative feedback regulator of IL-21 signaling. FEBS letters, 585(12), 1835.

Mkhikian H, et al. (2011) Genetics and the environment converge to dysregulate N-glycosylation in multiple sclerosis. Nature communications, 2, 334.

Shao Y, et al. (2010) Involvement of histone deacetylation in MORC2-mediated down-regulation of carbonic anhydrase IX. Nucleic acids research, 38(9), 2813.

Benesh AE, et al. (2010) Differential localization and dynamics of class I myosins in the enterocyte microvillus. Molecular biology of the cell, 21(6), 970.

Matsuoka K, et al. (2010) Simple screening method for autoantigen proteins using the N-terminal biotinylated protein library produced by wheat cell-free synthesis. Journal of proteome research, 9(8), 4264.

Clark MJ, et al. (2010) U87MG decoded: the genomic sequence of a cytogenetically aberrant human cancer cell line. PLoS genetics, 6(1), e1000832.