Resource Summary Report

Generated by NIF on Aug 2, 2026

Knockout Mouse Project Repository

RRID:SCR_007318
Type: Tool

Proper Citation

Knockout Mouse Project Repository (RRID:SCR_007318)

Resource Information

URL: http://www.komp.org/

Proper Citation: Knockout Mouse Project Repository (RRID:SCR_007318)

Description: Repository of mouse vectors, ES cells, mice, embryos, and sperm generated by NIH KOMP Mutagenesis Project. In addition, KOMP Repository offers services in support of KOMP products, including ES cell microinjection, vector cloning, post-insertional modification of cloned ES cells, cryopreservation, assisted reproduction techniques (IVF, ICSI) and mouse breeding, pathology services, phenotyping services, etc. KOMP Repository is final component of more than $50 million trans-NIH initiative to increase availability of genetically altered mice and related materials. The University of California, Davis (UC Davis) and Children''s Hospital Oakland Research Institute (CHORI) in Oakland, Calif., are collaborating to preserve, protect, and make available about 8,500 types of knockout mice and related products available to research community. Products are generated by two KOMP mutagenesis teams (CSD consortium and Regeneron Inc). All KOMP products generated by CSD consortium and Regeneron are available through KOMP Repository. Notice as of December 19, 2019: Materials from KOMP Repository have been deposited into MMRRC, including all mouse models and mouse embryonic stem cell lines. Eventually www.komp.org will be sunsetting, and IMSR will remove KOMP Repository listings, since they were double listed in MMRRC. MMRRC will contain the most accurate and up to date resource models.

Abbreviations: KOMP Repository

Synonyms: UCDavis KOMP Repository Knockout Mouse Project, KOMP Repository Knockout Mouse Project, UC Davis KOMP Repository Knockout Mouse Project

Resource Type: biomaterial supply resource, organism supplier, material resource

Keywords: vector, embryonic stem cell, embryo, sperm, germplasm, gene, breeding, mutagenesis, mutation, frozen, cryopreserved, knockout mouse, germline transmission testing, genotyping, in vitro fertilization, intracytoplasmic sperm injection, pathology, pathology service, phenotyping service, phenotype, phenotyping, FASEB list

Related Condition: Knock out mouse

Availability: For research purposes only

Resource Name: Knockout Mouse Project Repository

Resource ID: SCR_007318

Alternate IDs: nif-0000-00185

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260801T190319+0000

Ratings and Alerts

No rating or validation information has been found for Knockout Mouse Project Repository.

No alerts have been found for Knockout Mouse Project Repository.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 282 mentions in open access literature.

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

Mertlitz S, et al. (2025) Leucine-rich ??-2 glycoprotein 1 (LRG1) during inflammatory complications after allogeneic stem cell transplantation and CAR-T cell therapy. Journal for immunotherapy of cancer, 13(3).

Malik M, et al. (2025) Histone methyltransferase DOT1L maintains cell state and restricts cytotoxic potential of CD8 T cells. Science advances, 11(50), eadw1289.

Cheng CW, et al. (2025) RNA-seq analysis reveals transcriptome changes in livers from Efcab4b knockout mice. Biochemistry and biophysics reports, 41, 101944.

De Gaetano GV, et al. (2025) Role of endosomal toll-like receptors in immune sensing of Klebsiella pneumoniae. Frontiers in immunology, 16, 1538425.

Schaer DJ, et al. (2025) Stress-NRF2 response axis polarizes tumor macrophages and undermines immunotherapy. Journal for immunotherapy of cancer, 13(10).

MacMillan AC, et al. (2025) PRPS activity tunes redox homeostasis in Myc-driven lymphoma. bioRxiv : the preprint server for biology.

MacMillan AC, et al. (2025) PRPS activity tunes redox homeostasis in Myc-driven lymphoma. Redox biology, 84, 103649.

Li L, et al. (2025) Preventive role of CD163-positive macrophages in postoperative peritoneal adhesions. Inflammation and regeneration, 45(1), 26.

Keller MA, et al. (2025) Ketone Catabolism Is Essential for Maintaining Normal Heart Function During Aging. Journal of the American Heart Association, 14(21), e042508.

Meyer CM, et al. (2025) Regulation of hippocampal excitatory synapse development by the adhesion G-protein coupled receptor Brain-specific angiogenesis inhibitor 2 (BAI2/ADGRB2). bioRxiv : the preprint server for biology.

Kuang X, et al. (2024) USP22 overexpression fails to augment tumor formation in MMTV-ERBB2 mice but loss of function impacts MMTV promoter activity. PloS one, 19(1), e0290837.

Pedicini L, et al. (2024) Rab46: a novel player in mast cell function. Discovery immunology, 3(1), kyad028.

Verstraelen P, et al. (2024) Serum Amyloid A3 Fuels a Feed-Forward Inflammatory Response to the Bacterial Amyloid Curli in the Enteric Nervous System. Cellular and molecular gastroenterology and hepatology, 18(1), 89.

Goo YH, et al. (2024) Lipid droplet-associated hydrolase mobilizes stores of liver X receptor sterol ligands and protects against atherosclerosis. Nature communications, 15(1), 6540.

Kadhim AZ, et al. (2024) Transcriptional coactivator MED15 is required for beta cell maturation. Nature communications, 15(1), 8711.

Beckmann D, et al. (2023) Ca2+ Homeostasis by Plasma Membrane Ca2+ ATPase (PMCA) 1 Is Essential for the Development of DP Thymocytes. International journal of molecular sciences, 24(2).

Vasudevan S, et al. (2023) Gpr75 knockout mice display age-dependent cone photoreceptor cell loss. Journal of neurochemistry, 167(4), 538.

Lee C, et al. (2023) VEGF-B prevents excessive angiogenesis by inhibiting FGF2/FGFR1 pathway. Signal transduction and targeted therapy, 8(1), 305.

Li S, et al. (2023) DOT1L regulates lung developmental epithelial cell fate and adult alveolar stem cell differentiation after acute injury. Stem cell reports, 18(9), 1841.

Smith A, et al. (2023) Cardiac muscle-restricted partial loss of Nos1ap expression has limited but significant impact on electrocardiographic features. G3 (Bethesda, Md.), 13(11).