Resource Summary Report

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European Conditional Mouse Mutagenesis Program

RRID:SCR_003104
Type: Tool

Proper Citation

European Conditional Mouse Mutagenesis Program (RRID:SCR_003104)

Resource Information

URL: http://www.eucomm.org

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Description: Generate, archive, and distribute world-wide up to 12.000 conditional mutations across the mouse genome in mouse embryonic stem (ES) cells and Establish a limited number of mouse mutants from this resource. EUCOMM contributes the largest fraction of conditionally trapped and targeted genes in mouse C57BL/6N embryonic stem (ES) cells to the IKMC. EUCOMM vectors, mutant ES cells and mutant mice are distributed worldwide, enabling functional genomics research in a standardized and cost-effective manner by a much wider biomedical research community than has been possible previously. EUCOMM mutant ES cells and vectors can be obtained from the European Mouse Mutant Cell Repository (EuMMCR). EUCOMM mutant mice are archived and distributed by the European Mouse Mutant Archive (EMMA). Mutagenesis Strategies * Conditional gene trapping - random approach for expressed genes * Conditional targeted trapping - directed approach, used for expressed genes * Conditional gene targeting - directed approach, used for non-expressed genes

Abbreviations: EUCOMM

Resource Type: material service resource, service resource, biomaterial manufacture, production service resource

Keywords: mutant, c57bl/6n, embryonic stem cell, conditionally trapped, targeted gene, gene, functional genomics, vector, mutant embryonic stem cell, mutant mouse, mutagenesis, genome, gene trapping, gene targeting

Funding: European Union FP6

Resource Name: European Conditional Mouse Mutagenesis Program

Resource ID: SCR_003104

Alternate IDs: nif-0000-30531

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250422T055100+0000

Ratings and Alerts

No rating or validation information has been found for European Conditional Mouse Mutagenesis Program.

No alerts have been found for European Conditional Mouse Mutagenesis Program.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 53 mentions in open access literature.

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

Osma-Garcia IC, et al. (2023) The RNA binding proteins TIA1 and TIAL1 promote Mcl1 mRNA translation to protect germinal center responses from apoptosis. Cellular & molecular immunology, 20(9), 1063.

Osma-Garcia IC, et al. (2022) The splicing regulators TIA1 and TIAL1 are required for the expression of the DNA damage repair machinery during B cell lymphopoiesis. Cell reports, 41(12), 111869.

Górska AA, et al. (2021) Muscle-specific Cand2 is translationally upregulated by mTORC1 and promotes adverse cardiac remodeling. EMBO reports, 22(12), e52170.

Chande S, et al. (2020) Slc20a1/Pit1 and Slc20a2/Pit2 are essential for normal skeletal myofiber function and survival. Scientific reports, 10(1), 3069.

Orthofer M, et al. (2020) Identification of ALK in Thinness. Cell, 181(6), 1246.

Zambrano S, et al. (2018) FYVE domain-containing protein ZFYVE28 regulates EGFR-signaling in podocytes but is not critical for the function of filtration barrier in mice. Scientific reports, 8(1), 4712.

Bruschetta G, et al. (2018) Prolyl carboxypeptidase in Agouti-related Peptide neurons modulates food intake and body weight. Molecular metabolism, 10, 28.

Martínez-François JR, et al. (2018) BAD and KATP channels regulate neuron excitability and epileptiform activity. eLife, 7.

Chodelkova O, et al. (2018) Tcf7L2 is essential for neurogenesis in the developing mouse neocortex. Neural development, 13(1), 8.

Stuhlmann T, et al. (2018) LRRC8/VRAC anion channels enhance ?-cell glucose sensing and insulin secretion. Nature communications, 9(1), 1974.

Ratnadiwakara M, et al. (2018) SRSF3 promotes pluripotency through Nanog mRNA export and coordination of the pluripotency gene expression program. eLife, 7.

Zorzi V, et al. (2017) Mouse Panx1 Is Dispensable for Hearing Acquisition and Auditory Function. Frontiers in molecular neuroscience, 10, 379.

Connell M, et al. (2017) HMMR acts in the PLK1-dependent spindle positioning pathway and supports neural development. eLife, 6.

Takara K, et al. (2017) Morphological study of tooth development in podoplanin-deficient mice. PloS one, 12(2), e0171912.

Guidi LG, et al. (2017) Knockout Mice for Dyslexia Susceptibility Gene Homologs KIAA0319 and KIAA0319L have Unaffected Neuronal Migration but Display Abnormal Auditory Processing. Cerebral cortex (New York, N.Y. : 1991), 27(12), 5831.

Lee JK, et al. (2017) Abelson tyrosine-protein kinase 2 regulates myoblast proliferation and controls muscle fiber length. eLife, 6.

Tang JX, et al. (2017) Requirement for CCNB1 in mouse spermatogenesis. Cell death & disease, 8(10), e3142.

Zielinska AE, et al. (2017) Cellular and genetic models of H6PDH and 11?-HSD1 function in skeletal muscle. Cell biochemistry and function, 35(5), 269.

Kinsella E, et al. (2016) Use of a Conditional Ubr5 Mutant Allele to Investigate the Role of an N-End Rule Ubiquitin-Protein Ligase in Hedgehog Signalling and Embryonic Limb Development. PloS one, 11(6), e0157079.

Kim Y, et al. (2016) The role of BRD7 in embryo development and glucose metabolism. Journal of cellular and molecular medicine, 20(8), 1561.