Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 14, 2025

B6;129-Igf1r^{tm2Arge}/J

RRID:IMSR_JAX:012251
Type: Organism

Proper Citation

RRID:IMSR_JAX:012251

Organism Information

URL: https://www.jax.org/strain/012251

Proper Citation: RRID:IMSR_JAX:012251

Description: Mus musculus with name B6;129-Igf1r^{tm2Arge}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: insulin-like growth factor I receptor; mutant stock: Igf1r

Affected Gene: insulin-like growth factor I receptor

Genomic Alteration: targeted mutation 2; Argiris Efstratiadis

Catalog Number: JAX:012251

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129-Igf1r^{tm2Arge}/J

Record Creation Time: 20250513T053719+0000

Record Last Update: 20250513T053913+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Igf1r^{tm2Arge}/J.

No alerts have been found for B6;129-Igf1r^{tm2Arge}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Liu C, et al. (2024) Niche inflammatory signals control oscillating mammary regeneration and protect stem cells from cytotoxic stress. Cell stem cell, 31(1), 89.

Douglas JC, et al. (2024) Normal Ovarian Function in Subfertile Mouse with Amhr2-Cre-Driven Ablation of Insr and Igf1r. Genes, 15(5).

Darrigrand JF, et al. (2024) Acinar-ductal cell rearrangement drives branching morphogenesis of the murine pancreas in an IGF/PI3K-dependent manner. Developmental cell, 59(3), 326.

Hayes CA, et al. (2023) Neuronal and Astrocyte Insulin-like Growth Factor-1 Signaling Differentially Modulates Ischemic Stroke Damage. bioRxiv : the preprint server for biology.

Pan L, et al. (2023) IGFBPL1 is a master driver of microglia homeostasis and resolution of neuroinflammation in glaucoma and brain tauopathy. Cell reports, 42(8), 112889.

Gusmao DO, et al. (2022) Increased GH Secretion and Body Growth in Mice Carrying Ablation of IGF-1 Receptor in GH-releasing Hormone Cells. Endocrinology, 163(11).

Liu C, et al. (2022) Procr functions as a signaling receptor and is essential for the maintenance and self-renewal of mammary stem cells. Cell reports, 38(12), 110548.

Chaves FM, et al. (2022) Effects of the Isolated and Combined Ablation of Growth Hormone and IGF-1 Receptors in Somatostatin Neurons. Endocrinology, 163(5).

Sandovici I, et al. (2022) The imprinted Igf2-Igf2r axis is critical for matching placental microvasculature expansion to fetal growth. Developmental cell, 57(1), 63.

Mu W, et al. (2021) Hypothalamic Rax+ tanycytes contribute to tissue repair and tumorigenesis upon oncogene activation in mice. Nature communications, 12(1), 2288.

Mao H, et al. (2021) Endothelium-specific depletion of LRP1 improves glucose homeostasis through inducing osteocalcin. Nature communications, 12(1), 5296.

Shi Y, et al. (2021) Gli1+ progenitors mediate bone anabolic function of teriparatide via Hh and Igf signaling. Cell reports, 36(7), 109542.

Young K, et al. (2021) Decline in IGF1 in the bone marrow microenvironment initiates hematopoietic stem cell aging. Cell stem cell, 28(8), 1473.

Jing J, et al. (2021) Reciprocal interaction between mesenchymal stem cells and transit amplifying cells regulates tissue homeostasis. eLife, 10.

Yao M, et al. (2020) Astrocytic trans-Differentiation Completes a Multicellular Paracrine Feedback Loop Required for Medulloblastoma Tumor Growth. Cell, 180(3), 502.

Oherle K, et al. (2020) Insulin-like Growth Factor 1 Supports a Pulmonary Niche that Promotes Type 3 Innate Lymphoid Cell Development in Newborn Lungs. Immunity, 52(2), 275.

Liu Z, et al. (2017) IGF1-Dependent Synaptic Plasticity of Mitral Cells in Olfactory Memory during Social Learning. Neuron, 95(1), 106.

Biggs BT, et al. (2016) Insulin-Like Growth Factors Are Expressed in the Taste System, but Do Not Maintain Adult Taste Buds. PloS one, 11(2), e0148315.