

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

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: 20260725T044429+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 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

de Sousa ME, et al. (2026) Effects of IGF-1 receptor inactivation in tyrosine hydroxylase cells on body growth and growth hormone secretion. *Life sciences*, 385, 124125.

Gusmao DO, et al. (2025) GH-Releasing Hormone Neurons Regulate the Hypothalamic-Pituitary-Somatotropic Axis via Short-Loop Negative Feedback. *Endocrinology*, 166(5).

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).

Gusmao DO, et al. (2024) Characterization and Regulation of the Neonatal Growth Hormone Surge. *Endocrinology*, 165(12).

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.

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

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

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.