Resource Summary Report

Generated by NIF on Aug 27, 2026

B6.129S6(SJL)-Fgf21$^{tm1.2Djm}$/J

RRID:IMSR_JAX:022361
Type: Organism

Proper Citation

RRID:IMSR_JAX:022361

Organism Information

URL: https://www.jax.org/strain/022361

Proper Citation: RRID:IMSR_JAX:022361

Description: Mus musculus with name B6.129S6(SJL)-Fgf21$^{tm1.2Djm}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: fibroblast growth factor 21; mutant strain|congenic strain: Fgf21

Affected Gene: fibroblast growth factor 21

Genomic Alteration: targeted mutation 1.2; David J Mangelsdorf

Catalog Number: JAX:022361

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S6(SJL)-Fgf21$^{tm1.2Djm}$/J

Record Creation Time: 20250513T053745+0000

Record Last Update: 20260815T050656+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6(SJL)-Fgf21$^{tm1.2Djm}$/J.

No alerts have been found for B6.129S6(SJL)-Fgf21$^{tm1.2Djm}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Jaschke NP, et al. (2025) Gut-to-brain signaling restricts dietary protein intake during recovery from catabolic states. Cell, 188(26), 7481.

Cui X, et al. (2023) Pancreatic alpha cell glucagon-liver FGF21 axis regulates beta cell regeneration in a mouse model of type 2 diabetes. Diabetologia, 66(3), 535.

Pena-Leon V, et al. (2022) Prolonged breastfeeding protects from obesity by hypothalamic action of hepatic FGF21. Nature metabolism, 4(7), 901.

Croon M, et al. (2022) FGF21 modulates mitochondrial stress response in cardiomyocytes only under mild mitochondrial dysfunction. Science advances, 8(14), eabn7105.

Katsumura S, et al. (2022) Deadenylase-dependent mRNA decay of GDF15 and FGF21 orchestrates food intake and energy expenditure. Cell metabolism, 34(4), 564.

Green CL, et al. (2022) Sex and genetic background define the metabolic, physiologic, and molecular response to protein restriction. Cell metabolism, 34(2), 209.

Zhang Y, et al. (2022) Pegylated arginine deiminase drives arginine turnover and systemic autophagy to dictate energy metabolism. Cell reports. Medicine, 3(1), 100498.

Zhou B, et al. (2022) Central FGF21 production regulates memory but not peripheral metabolism. Cell reports, 40(8), 111239.

Ma Y, et al. (2021) Exercise Training Alleviates Cardiac Fibrosis through Increasing Fibroblast Growth Factor 21 and Regulating TGF-??1-Smad2/3-MMP2/9 Signaling in Mice with Myocardial Infarction. International journal of molecular sciences, 22(22).

Girer NG, et al. (2021) Liver-Specific Nonviral Gene Delivery of Fibroblast Growth Factor 21 Protein Expression in Mice Regulates Body Mass and White/Brown Fat Respiration. The Journal of pharmacology and experimental therapeutics, 378(2), 157.

Yu D, et al. (2021) The adverse metabolic effects of branched-chain amino acids are mediated by isoleucine and valine. Cell metabolism, 33(5), 905.

Girer NG, et al. (2019) Inducible Loss of the Aryl Hydrocarbon Receptor Activates Perigonadal White Fat Respiration and Brown Fat Thermogenesis via Fibroblast Growth Factor 21. International journal of molecular sciences, 20(4).

Geller S, et al. (2019) Tanycytes Regulate Lipid Homeostasis by Sensing Free Fatty Acids and Signaling to Key Hypothalamic Neuronal Populations via FGF21 Secretion. Cell metabolism, 30(4), 833.

Ruan CC, et al. (2018) A2A Receptor Activation Attenuates Hypertensive Cardiac Remodeling via Promoting Brown Adipose Tissue-Derived FGF21. Cell metabolism, 28(3), 476.