Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Mar 30, 2025

B6.129P2-Lgr5$^{tm1(cre/ERT2)Cle}$/J

RRID:IMSR_JAX:008875
Type: Organism

Proper Citation

RRID:IMSR_JAX:008875

Organism Information

URL: https://www.jax.org/strain/008875

Proper Citation: RRID:IMSR_JAX:008875

Description: Mus musculus with name B6.129P2-Lgr5$^{tm1(cre/ERT2)Cle}$/J from IMSR.

Species: Mus musculus

Synonyms: B6.129P2-Lgr5/J

Notes: gene symbol note: leucine rich repeat containing G protein coupled receptor 5|Cre recombinase and estrogen receptor 1 (human) fusion gene|; congenic strain: Lgr5|cre/ERT2|

Affected Gene: leucine rich repeat containing G protein coupled receptor 5|Cre recombinase and estrogen receptor 1 (human) fusion gene|

Genomic Alteration: targeted mutation 1; Hans Clevers

Catalog Number: JAX:008875

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:8875

Organism Name: B6.129P2-Lgr5$^{tm1(cre/ERT2)Cle}$/J

Record Creation Time: 20230509T193259+0000

Record Last Update: 20240104T174929+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Lgr5$^{tm1(cre/ERT2)Cle}$/J.

No alerts have been found for B6.129P2-Lgr5$^{tm1(cre/ERT2)Cle}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 172 mentions in open access literature.

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

Short SP, et al. (2024) MTGR1 is required to maintain small intestinal stem cell populations. Cell death and differentiation, 31(9), 1170.

Ren X, et al. (2024) DHX9 maintains epithelial homeostasis by restraining R-loop-mediated genomic instability in intestinal stem cells. Nature communications, 15(1), 3080.

Zamfirov L, et al. (2024) Acoustic-pressure-driven ultrasonic activation of the mechanosensitive receptor RET and of cell proliferation in colonic tissue. Nature biomedical engineering.

Capdevila C, et al. (2024) Time-resolved fate mapping identifies the intestinal upper crypt zone as an origin of Lgr5+ crypt base columnar cells. Cell, 187(12), 3039.

Zutshi N, et al. (2024) Cbl and Cbl-b ubiquitin ligases are essential for intestinal epithelial stem cell maintenance. iScience, 27(6), 109912.

Lemmetyinen TT, et al. (2024) Mesenchymal GDNF promotes intestinal enterochromaffin cell differentiation. iScience, 27(12), 111246.

Kim G, et al. (2024) Gut-liver axis calibrates intestinal stem cell fitness. Cell, 187(4), 914.

Singh A, et al. (2024) IL-22 promotes mucin-type O-glycosylation and MATH1+ cell-mediated amelioration of intestinal inflammation. Cell reports, 43(5), 114206.

Li C, et al. (2024) Enterococcus-derived tyramine hijacks ?2A-adrenergic receptor in intestinal stem cells to exacerbate colitis. Cell host & microbe, 32(6), 950.

Eshleman EM, et al. (2024) Microbiota-derived butyrate restricts tuft cell differentiation via histone deacetylase 3 to modulate intestinal type 2 immunity. Immunity, 57(2), 319.

Huang D, et al. (2024) Scleroglucan protects the intestine from irradiation-induced injury by targeting the IL-17 signaling pathway. International immunopharmacology, 129, 111614.

Ghobashi AH, et al. (2024) Single-Cell Profiling Reveals the Impact of Genetic Alterations on the Differentiation of Inflammation-Induced Murine Colon Tumors. Cancers, 16(11).

LaBella KA, et al. (2024) Telomere dysfunction alters intestinal stem cell dynamics to promote cancer. Developmental cell, 59(11), 1475.

Kinoshita H, et al. (2024) Epithelial aPKC deficiency leads to stem cell loss preceding metaplasia in colorectal cancer initiation. Developmental cell, 59(15), 1972.

Jones C, et al. (2023) HNF4? Acts as Upstream Functional Regulator of Intestinal Wnt3 and Paneth Cell Fate. Cellular and molecular gastroenterology and hepatology, 15(3), 593.

Yavitt FM, et al. (2023) In situ modulation of intestinal organoid epithelial curvature through photoinduced viscoelasticity directs crypt morphogenesis. Science advances, 9(3), eadd5668.

Ren W, et al. (2023) Cisplatin attenuates taste cell homeostasis and induces inflammatory activation in the circumvallate papilla. Theranostics, 13(9), 2896.

Bao W, et al. (2023) Inhibiting sorting nexin 10 promotes mucosal healing through SREBP2-mediated stemness restoration of intestinal stem cells. Science advances, 9(35), eadh5016.

Corrêa RO, et al. (2023) Inulin diet uncovers complex diet-microbiota-immune cell interactions remodeling the gut epithelium. Microbiome, 11(1), 90.

Han J, et al. (2023) Distinct bulge stem cell populations maintain the pilosebaceous unit in a ?-catenin-dependent manner. iScience, 26(1), 105805.