

Resource Summary Report

Generated by [NIF](#) on Aug 13, 2026

B6;129-Bmi1^{tm1(cre/ERT)}Mrc/J

RRID:IMSR_JAX:010531

Type: Organism

Proper Citation

RRID:IMSR_JAX:010531

Organism Information

URL: <https://www.jax.org/strain/010531>

Proper Citation: RRID:IMSR_JAX:010531

Description: Mus musculus with name B6;129-Bmi1^{tm1(cre/ERT)}Mrc/J from IMSR.

Species: Mus musculus

Synonyms: B6;129-Bmi1/J

Notes: gene symbol note: Bmi1 proto-oncogene; polycomb ring finger|Cre recombinase and estrogen receptor 1 (human) fusion gene; mutant stock: Bmi1|cre/ERT2

Affected Gene: Bmi1 proto-oncogene; polycomb ring finger|Cre recombinase and estrogen receptor 1 (human) fusion gene

Genomic Alteration: targeted mutation 1; Mario R Capecchi

Catalog Number: JAX:010531

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129-Bmi1^{tm1(cre/ERT)}Mrc/J

Record Creation Time: 20250513T053716+0000

Record Last Update: 20260808T050921+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Bmi1^{tm1(cre/ERT)}Mrc/J.

No alerts have been found for B6;129-Bmi1^{tm1(cre/ERT)}Mrc/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Qin Z, et al. (2025) Co-targeting BMI1 and MYC to eliminate cancer stem cells in squamous cell carcinoma. *Cell reports. Medicine*, 6(5), 102077.

Smith NR, et al. (2025) Dual states of murine Bmi1-expressing intestinal stem cells drive epithelial development utilizing non-canonical Wnt signaling. *Developmental cell*, 60(16), 2177.

Liu S, et al. (2024) Pharmacological inhibition of MYC to mitigate chemoresistance in preclinical models of squamous cell carcinoma. *Theranostics*, 14(2), 622.

Ohara TE, et al. (2022) Adaptive differentiation promotes intestinal villus recovery. *Developmental cell*, 57(2), 166.

Zhang W, et al. (2021) Targeting KDM4A epigenetically activates tumor-cell-intrinsic immunity by inducing DNA replication stress. *Molecular cell*, 81(10), 2148.

Chen D, et al. (2021) Generation of a squamous cell carcinoma mouse model for lineage tracing of BMI1+ cancer stem cells. *STAR protocols*, 2(2), 100484.

He X, et al. (2021) Tumor-initiating stem cell shapes its microenvironment into an immunosuppressive barrier and pro-tumorigenic niche. *Cell reports*, 36(10), 109674.

Wang C, et al. (2021) CD276 expression enables squamous cell carcinoma stem cells to evade immune surveillance. *Cell stem cell*, 28(9), 1597.

Chen F, et al. (2020) TIGAR/AP-1 axis accelerates the division of Lgr5- reserve intestinal stem cells to reestablish intestinal architecture after lethal radiation. *Cell death & disease*, 11(7), 501.

Jia L, et al. (2020) BMI1 Inhibition Eliminates Residual Cancer Stem Cells after PD1 Blockade and Activates Antitumor Immunity to Prevent Metastasis and Relapse. *Cell stem cell*, 27(2), 238.

Jones KB, et al. (2019) Quantitative Clonal Analysis and Single-Cell Transcriptomics Reveal Division Kinetics, Hierarchy, and Fate of Oral Epithelial Progenitor Cells. *Cell stem cell*, 24(1), 183.

Yousefi M, et al. (2018) Calorie Restriction Governs Intestinal Epithelial Regeneration through Cell-Autonomous Regulation of mTORC1 in Reserve Stem Cells. *Stem cell reports*, 10(3), 703.

Yan KS, et al. (2017) Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity. *Cell stem cell*, 21(1), 78.