

Resource Summary Report

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B6.129S4-Kras^{tm4Tyj/J}

RRID:IMSR_JAX:008179

Type: Organism

Proper Citation

RRID:IMSR_JAX:008179

Organism Information

URL: <https://www.jax.org/strain/008179>

Proper Citation: RRID:IMSR_JAX:008179

Description: Mus musculus with name B6.129S4-Kras^{tm4Tyj/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: Kras proto-oncogene; GTPase; congenic strain: Kras

Affected Gene: Kras proto-oncogene; GTPase

Genomic Alteration: targeted mutation 4; Tyler Jacks

Catalog Number: JAX:008179

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S4-Kras^{tm4Tyj/J}

Record Creation Time: 20250513T053706+0000

Record Last Update: 20260725T044418+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Kras^{tm4Tyj/J}.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human acute myeloid leukemia.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 170 mentions in open access literature.

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

Diaz-Jimenez A, et al. (2026) EML4-ALK Variant-Specific Genetic Interactions Shape Lung Tumorigenesis. *Cancer discovery*, 16(1), 46.

Zhang ZD, et al. (2026) MITA/STING-driven CD38 induction in Siglec-Flow macrophages promotes regulatory T cell survival and non-small cell lung cancer progression. *Developmental cell*.

Ashkin EL, et al. (2025) A STAG2-PAXIP1/PAGR1 axis suppresses lung tumorigenesis. *The Journal of experimental medicine*, 222(1).

Shuldiner EG, et al. (2025) Aging represses oncogenic KRAS-driven lung tumorigenesis and alters tumor suppression. *Nature aging*, 5(11), 2263.

Dai P, et al. (2025) USP2 inhibition unleashes CD47-restrained phagocytosis and enhances anti-tumor immunity. *Nature communications*, 16(1), 4564.

Yang A, et al. (2025) ITGB5-mediated biomechanical regulation in pancreatic ductal adenocarcinoma stroma impacts tumor progression and prognosis. *Journal of translational medicine*, 23(1), 1150.

Hebert JD, et al. (2025) Combinatorial In Vivo Genome Editing Identifies Widespread Epistasis and an Accessible Fitness Landscape During Lung Tumorigenesis. *Molecular biology and evolution*, 42(2).

Tonelli C, et al. (2025) FGFR2 Abrogation Intercepts Pancreatic Ductal Adenocarcinoma Development. *Cancer research*, 85(11), 1960.

Cheung JF, et al. (2025) Distinct T cell functions enable efficient immunoediting and prevent tumor emergence of developing sarcomas. *Cancer cell*, 43(12), 2311.

Hu K, et al. (2025) Development and Application of MiMouse, a Comprehensive Genomic Profiling Panel for Credentialing Mouse Tumor Models. *Cancer research communications*, 5(10), 1910.

Ivanisevic T, et al. (2025) Intrinsic resistance to RAS inhibitors is driven by dysregulation of KRAS degradation. *Nature communications*, 17(1), 411.

Ray P, et al. (2025) SMURF2 Facilitates GAP17 Isoform 1 Membrane Displacement to Promote Mutant p53-KRAS Oncogenic Synergy. *Molecular cancer research : MCR*, 23(6),

Li H, et al. (2025) Protocol for adeno-associated virus-mediated gene delivery to accelerate pancreatic carcinogenesis in mice. STAR protocols, 6(3), 103907.

Li H, et al. (2025) Disrupting AGR2/IGF1 paracrine and reciprocal signaling for pancreatic cancer therapy. Cell reports. Medicine, 6(2), 101927.

Park JS, et al. (2025) L1CAM signaling through planar cell polarity generates SOX2 + metastatic progenitors in lung adenocarcinoma. bioRxiv : the preprint server for biology.

Snoke DB, et al. (2025) Early adipose tissue wasting in a preclinical model of human lung cancer cachexia. Cell reports, 44(9), 116278.

Khan K, et al. (2025) Loss of Sorting Nexin 10 Accelerates KRAS-Induced Pancreatic Tumorigenesis. Cancer research communications, 5(9), 1541.

Tang Z, et al. (2025) A subset of neutrophils activates anti-tumor immunity and inhibits non-small-cell lung cancer progression. Developmental cell, 60(3), 379.

Salmeron C, et al. (2025) Histamine H1 Receptor: A potential therapeutic target for pancreatic ductal adenocarcinoma. The Journal of pharmacology and experimental therapeutics, 392(5), 103573.

Yu Y, et al. (2025) APE1 promotes lung adenocarcinoma through G4-mediated transcriptional reprogramming of urea cycle metabolism. iScience, 28(5), 112275.