Resource Summary Report

Generated by ASWG on Aug 12, 2026

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: 20260808T050911+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 187 mentions in open access literature.

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

Wen HJ, et al. (2026) ADAM17-dependent Autocrine and Paracrine Signaling Promotes Pancreatic Premalignant Progression. Cellular and molecular gastroenterology and hepatology, 20(4), 101711.

Morigny P, et al. (2026) Multi-omics profiling of cachexia-targeted tissues reveals a spatio-temporally coordinated response to cancer. Nature metabolism, 8(1), 237.

Zhang Z, et al. (2026) Loss of polarity by Cdc42 depletion and oncogenic Kras activation in the mouse intestinal epithelia leads to a necrotizing enterocolitis (NEC)-like disease. Nature communications, 17(1).

Grimont A, et al. (2026) Molecular dynamics driving phenotypic divergence among KRAS mutants in pancreatic tumorigenesis. Developmental cell.

Salmerón C, et al. (2026) Corrigendum to "Histamine H1 receptor: a potential therapeutic target for pancreatic ductal adenocarcinoma". The Journal of pharmacology and experimental therapeutics, 393(4), 104305.

Kobayashi H, et al. (2026) Netrin-1 Promotes Pancreatic Tumorigenesis and Innervation through NEO1. Cancer research, 86(8), 1883.

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.

Swancutt KL, et al. (2026) Immune Stromal Components Impede Biological Effectiveness of Carbon Ion Therapy in a Preclinical Model of Pancreatic Ductal Adenocarcinoma. Molecular cancer therapeutics, 25(2), 333.

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

Garczyk M, et al. (2026) Targeting PI3K? suppresses pancreatic cancer by dual disruption of fibrosis and immune evasion. Cell reports, 45(4), 117188.

Mayet A, et al. (2026) Bcl-xL blockade targets neutrophils and synergizes with chemotherapy in lung squamous cell carcinoma. EMBO molecular medicine, 18(5), 1625.

Zhuo M, et al. (2026) A conserved re-epithelialization program underlies malignancy in pancreatic ductal adenocarcinoma. Cancer cell, 44(6), 1270.

Nigri J, et al. (2026) Myofibroblasts Induce Neuroplasticity to Promote Pancreatic Inflammation and Cancer Progression. Cancer discovery, 16(5), 1014.

Ruiz CF, et al. (2026) Diet-induced phospholipid remodeling dictates ferroptosis sensitivity and tumorigenesis in the pancreas. Cancer discovery.

Zhang F, et al. (2026) The central precocious puberty-associated gene MKRN3 is a tumor suppressor regulating CSDE1 ubiquitination in ovarian cancer. Oncogenesis, 15(1).

Agrawal D, et al. (2026) Aberrant methylation limits antitumoral inflammation in lung adenocarcinoma by restricting RIPK3 expression. Science advances, 12(4), eadz9227.

Thege FI, et al. (2026) An autochthonous CRISPR activation screening platform for characterizing tissue-specific oncogene selection. Cell reports. Medicine, 7(5), 102759.

Roger E, et al. (2026) ATM Deficiency Induces TGF?-Mediated Stromal Programming in Pancreatic Cancer. Cancer research, 86(14), 3412.

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.