Resource Summary Report

Generated by kravitz2 on Jul 30, 2026

B6.129-Kras^{tm4Tyj}/Nci

RRID:IMSR_NCIMR:01XJ6
Type: Organism

Proper Citation

RRID:IMSR_NCIMR:01XJ6

Organism Information

URL:

Proper Citation: RRID:IMSR_NCIMR:01XJ6

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

Species: Mus musculus

Notes: gene symbol note: Kirsten rat sarcoma viral oncogene homolog; congenic strain: Kras

Affected Gene: Kirsten rat sarcoma viral oncogene homolog

Genomic Alteration: targeted mutation 4; Tyler Jacks

Catalog Number: NCIMR:01XJ6

Database: National Cancer Institute at Frederick

Database Abbreviation: NCIMR

Availability: embryo

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

Record Creation Time: 20250513T061851+0000

Record Last Update: 20260725T052558+0000

Ratings and Alerts

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

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: National Cancer Institute at Frederick

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Ganguly K, et al. (2022) Mucin 5AC-Mediated CD44/ITGB1 Clustering Mobilizes Adipose-Derived Mesenchymal Stem Cells to Modulate Pancreatic Cancer Stromal Heterogeneity. Gastroenterology, 162(7), 2032.

Betzler AM, et al. (2021) Differential Effects of Trp53 Alterations in Murine Colorectal Cancer. Cancers, 13(4).

Alam H, et al. (2020) KMT2D Deficiency Impairs Super-Enhancers to Confer a Glycolytic Vulnerability in Lung Cancer. Cancer cell, 37(4), 599.

Mallya K, et al. (2020) Acinar transformed ductal cells exhibit differential mucin expression in a tamoxifen-induced pancreatic ductal adenocarcinoma mouse model. Biology open, 9(9).

Johnson CW, et al. (2019) Isoform-Specific Destabilization of the Active Site Reveals a Molecular Mechanism of Intrinsic Activation of KRas G13D. Cell reports, 28(6), 1538.

Chua CW, et al. (2018) Differential requirements of androgen receptor in luminal progenitors during prostate regeneration and tumor initiation. eLife, 7.

Sullivan WJ, et al. (2018) Extracellular Matrix Remodeling Regulates Glucose Metabolism through TXNIP Destabilization. Cell, 175(1), 117.

Coelho MA, et al. (2017) Oncogenic RAS Signaling Promotes Tumor Immunoresistance by Stabilizing PD-L1 mRNA. Immunity, 47(6), 1083.

Hong X, et al. (2016) Challenges in detecting pre-malignant pancreatic lesions during acute pancreatitis using a serum microRNA assay: a study based on KrasG12D transgenic mice. Oncotarget, 7(16), 22700.

Zhu L, et al. (2016) Multi-organ Mapping of Cancer Risk. Cell, 166(5), 1132.

Rachagani S, et al. (2015) Changes in microRNA (miRNA) expression during pancreatic cancer development and progression in a genetically engineered KrasG12D;Pdx1-Cre mouse (KC) model. Oncotarget, 6(37), 40295.

Dey P, et al. (2014) PD2/Paf1 depletion in pancreatic acinar cells promotes acinar-to-ductal metaplasia. Oncotarget, 5(12), 4480.

Chua CW, et al. (2014) Single luminal epithelial progenitors can generate prostate organoids in culture. Nature cell biology, 16(10), 951.

Rachagani S, et al. (2012) Mucin (Muc) expression during pancreatic cancer progression in spontaneous mouse model: potential implications for diagnosis and therapy. Journal of hematology & oncology, 5, 68.