

Resource Summary Report

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B6.129P2(Cg)-Braf^{tm1Mmcm/J}

RRID:IMSR_JAX:017837

Type: Organism

Proper Citation

RRID:IMSR_JAX:017837

Organism Information

URL: <https://www.jax.org/strain/017837>

Proper Citation: RRID:IMSR_JAX:017837

Description: Mus musculus with name B6.129P2(Cg)-Braf^{tm1Mmcm/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129(Cg)-Braf/J

Notes: gene symbol note: B-Raf proto-oncogene; serine/threonine kinase; mutant strain|congenic strain: BRAF|Braf

Affected Gene: B-Raf proto-oncogene; serine/threonine kinase

Genomic Alteration: targeted mutation 1; Martin McMahon

Catalog Number: JAX:017837

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2(Cg)-Braf^{tm1Mmcm/J}

Record Creation Time: 20250513T053734+0000

Record Last Update: 20260725T044443+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2(Cg)-Braf^{tm1Mmcm/J}.

No alerts have been found for B6.129P2(Cg)-Braf^{tm1Mmcm/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Alam Z, et al. (2025) Fosl1 is a transcriptional effector of BRAF V600E-driven intestinal tumorigenesis. *iScience*, 28(11), 113875.

Schoultz E, et al. (2025) Tumor Cell Plasticity and Stromal Microenvironment Distinguish Papillary and Follicular Growth Patterns in a Mouse Model of BRAFV600E-Induced Thyroid Cancer. *Cancer research communications*, 5(3), 409.

Xing YL, et al. (2025) BRAF/MEK inhibition induces cell state transitions boosting immune checkpoint sensitivity in BRAFV600E-mutant glioma. *Cell reports. Medicine*, 6(6), 102183.

Gao C, et al. (2024) FAK loss reduces BRAFV600E-induced ERK phosphorylation to promote intestinal stemness and cecal tumor formation. *Research square*.

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).

Ghobashi AH, et al. (2023) Single-cell profiling reveals the impact of genetic alterations on the differentiation of inflammation-induced colon tumors. *bioRxiv : the preprint server for biology*.

Schoultz E, et al. (2023) Tissue specificity of oncogenic BRAF targeted to lung and thyroid through a shared lineage factor. *iScience*, 26(7), 107071.

Wilk CM, et al. (2023) Circulating senescent myeloid cells infiltrate the brain and cause neurodegeneration in histiocytic disorders. *Immunity*, 56(12), 2790.

Clerk A, et al. (2022) Cardiomyocyte BRAF and type 1 RAF inhibitors promote cardiomyocyte and cardiac hypertrophy in mice in vivo. *The Biochemical journal*, 479(3), 401.

Vaishnavi A, et al. (2022) Transposon Mutagenesis Reveals RBMS3 Silencing as a Promoter of Malignant Progression of BRAFV600E-Driven Lung Tumorigenesis. *Cancer research*, 82(22), 4261.

DeStefano Shields CE, et al. (2021) Bacterial-Driven Inflammation and Mutant BRAF Expression Combine to Promote Murine Colon Tumorigenesis That Is Sensitive to Immune Checkpoint Therapy. *Cancer discovery*, 11(7), 1792.

Chavali M, et al. (2020) Wnt-Dependent Oligodendroglial-Endothelial Interactions Regulate White Matter Vascularization and Attenuate Injury. *Neuron*, 108(6), 1130.

Weng CC, et al. (2019) Mutant Kras-induced upregulation of CD24 enhances prostate cancer stemness and bone metastasis. *Oncogene*, 38(12), 2005.

van Veen JE, et al. (2019) Mutationally-activated PI3'-kinase-?? promotes de-differentiation of lung tumors initiated by the BRAFV600E oncoprotein kinase. *eLife*, 8.

Shimamura M, et al. (2018) Mouse models of sporadic thyroid cancer derived from BRAFV600E alone or in combination with PTEN haploinsufficiency under physiologic TSH levels. *PloS one*, 13(8), e0201365.

Zingg D, et al. (2018) EZH2-Mediated Primary Cilium Deconstruction Drives Metastatic Melanoma Formation. *Cancer cell*, 34(1), 69.