

Resource Summary Report

Generated by ASWG on Aug 27, 2026

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: 20260815T050646+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 17 mentions in open access literature.

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

Tomassoni-Ardori F, et al. (2026) BRAF V600E Expression in c-Kit+ Interstitial Cells of Cajal Drives Gastrointestinal Stromal Tumor Formation in Mice. Cancer research communications, 6(3), 557.

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.

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

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

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.