

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 2, 2026

pBABE-Puro-KRas*G12V

RRID:Addgene_46746

Type: Plasmid

Proper Citation

RRID:Addgene_46746

Plasmid Information

URL: <http://www.addgene.org/46746>

Proper Citation: RRID:Addgene_46746

Insert Name: KRAS*G12V

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23246410](#)

Vector Backbone Description: Backbone Size:5169; Vector Backbone:pBABE-Puro; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Plasmid Name: pBABE-Puro-KRas*G12V

Relevant Mutation: carries the oncogenic G12V mutation and cDNA is encoded by a chimeric mixture of HRAS and KRAS codons that encode KRas protein

Record Creation Time: 20220422T222241+0000

Record Last Update: 20260829T080603+0000

Ratings and Alerts

No rating or validation information has been found for pBABE-Puro-KRas*G12V.

No alerts have been found for pBABE-Puro-KRas*G12V.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Shin DH, et al. (2025) Targeting TGF- β -Smad2/3-JNK1-mediated SIRT1 activity overcomes the chemoresistance of KRAS mutation lung cancer. *Experimental & molecular medicine*, 57(9), 2022.

Gong Z, et al. (2024) Brusatol attenuated proliferation and invasion induced by KRAS in differentiated thyroid cancer through inhibiting Nrf2. *Journal of endocrinological investigation*, 47(5), 1271.

Dupéré-Richer D, et al. (2024) KDM6A Regulates Immune Response Genes in Multiple Myeloma. *bioRxiv : the preprint server for biology*.

Alhayyani S, et al. (2022) Oncogenic dependency on STAT3 serine phosphorylation in KRAS mutant lung cancer. *Oncogene*, 41(6), 809.

Xu C, et al. (2022) Combined HASPIN and mTOR inhibition is synergistic against KRAS-driven carcinomas. *Translational oncology*, 26, 101540.

Castellan M, et al. (2021) Single-cell analyses reveal YAP/TAZ as regulators of stemness and cell plasticity in Glioblastoma. *Nature cancer*, 2(2), 174.

Kumazaki M, et al. (2020) Cell-type specific tumorigenesis with Ras oncogenes in human lung epithelial cells. *Biochemical and biophysical research communications*, 525(2), 483.

Ye H, et al. (2020) AMPK activation overcomes anti-EGFR antibody resistance induced by KRAS mutation in colorectal cancer. *Cell communication and signaling : CCS*, 18(1), 115.

Dong L, et al. (2019) HSP90 interacts with HMGCR and promotes the progression of hepatocellular carcinoma. *Molecular medicine reports*, 19(1), 524.

Ogawa F, et al. (2019) Role of KRAS in regulating normal human airway basal cell differentiation. *Respiratory research*, 20(1), 181.

Bennett Saidu NE, et al. (2018) Dimethyl fumarate is highly cytotoxic in KRAS mutated cancer cells but spares non-tumorigenic cells. *Oncotarget*, 9(10), 9088.

Mulcahy Levy JM, et al. (2017) Autophagy inhibition overcomes multiple mechanisms of resistance to BRAF inhibition in brain tumors. *eLife*, 6.

Weaver RL, et al. (2016) BubR1 alterations that reinforce mitotic surveillance act against aneuploidy and cancer. *eLife*, 5.

Wiersma VR, et al. (2015) The epithelial polarity regulator LGALS9/galectin-9 induces fatal frustrated autophagy in KRAS mutant colon carcinoma that depends on elevated basal autophagic flux. *Autophagy*, 11(8), 1373.