

Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

pBabe K-Ras 12V

RRID:Addgene_12544

Type: Plasmid

Proper Citation

RRID:Addgene_12544

Plasmid Information

URL: <http://www.addgene.org/12544>

Proper Citation: RRID:Addgene_12544

Insert Name: K-Ras 12V

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:8668210](#)

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

Comments: Constructed by Aylin Ulku at the Der lab. Insert: also a 3' BamHI site immediately adjacent to the 3' Sall site.

Plasmid Name: pBabe K-Ras 12V

Relevant Mutation: 12V constitutively activated

Record Creation Time: 20220422T221657+0000

Record Last Update: 20260808T080653+0000

Ratings and Alerts

No rating or validation information has been found for pBabe K-Ras 12V.

No alerts have been found for pBabe K-Ras 12V.

Data and Source Information

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Tomoshige K, et al. (2023) FOXA2 Cooperates with Mutant KRAS to Drive Invasive Mucinous Adenocarcinoma of the Lung. *Cancer research*, 83(9), 1443.

Reggiardo RE, et al. (2022) Mutant KRAS regulates transposable element RNA and innate immunity via KRAB zinc-finger genes. *Cell reports*, 40(3), 111104.

Liu H, et al. (2021) SRPK1/2 and PP1 γ exert opposite functions by modulating SRSF1-guided MKNK2 alternative splicing in colon adenocarcinoma. *Journal of experimental & clinical cancer research : CR*, 40(1), 75.

Pelullo M, et al. (2019) Kras/ADAM17-Dependent Jag1-ICD Reverse Signaling Sustains Colorectal Cancer Progression and Chemoresistance. *Cancer research*, 79(21), 5575.

Cataisson C, et al. (2019) T-Cell Deletion of MyD88 Connects IL17 and I β B γ to RAS Oncogenesis. *Molecular cancer research : MCR*, 17(8), 1759.

Li S, et al. (2018) Assessing Therapeutic Efficacy of MEK Inhibition in a KRASG12C-Driven Mouse Model of Lung Cancer. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 24(19), 4854.

Ganier O, et al. (2018) Structural centrosome aberrations promote non-cell-autonomous invasiveness. *The EMBO journal*, 37(9).

Valverde A, et al. (2017) The addition of celecoxib improves the antitumor effect of cetuximab in colorectal cancer: role of EGFR-RAS-FOXM1- β -catenin signaling axis. *Oncotarget*, 8(13), 21754.

Zhu S, et al. (2017) A Role for The ATP7A Copper Transporter in Tumorigenesis and Cisplatin Resistance. *Journal of Cancer*, 8(11), 1952.

DeSmet ML, et al. (2017) Constitutively active RAS signaling reduces 1,25 dihydroxyvitamin D-mediated gene transcription in intestinal epithelial cells by reducing vitamin D receptor expression. *The Journal of steroid biochemistry and molecular biology*, 173, 194.

Garant KA, et al. (2016) Oncolytic reovirus induces intracellular redistribution of Ras to promote apoptosis and progeny virus release. *Oncogene*, 35(6), 771.

Unni AM, et al. (2015) Evidence that synthetic lethality underlies the mutual exclusivity of oncogenic KRAS and EGFR mutations in lung adenocarcinoma. *eLife*, 4, e06907.

Leiser D, et al. (2015) KRAS and HRAS mutations confer resistance to MET targeting in preclinical models of MET-expressing tumor cells. *Molecular oncology*, 9(7), 1434.

Valverde A, et al. (2015) Simultaneous inhibition of EGFR/VEGFR and cyclooxygenase-2 targets stemness-related pathways in colorectal cancer cells. PloS one, 10(6), e0131363.

Serra RW, et al. (2014) A KRAS-directed transcriptional silencing pathway that mediates the CpG island methylator phenotype. eLife, 3, e02313.

Tong JH, et al. (2014) Characterization of rare transforming KRAS mutations in sporadic colorectal cancer. Cancer biology & therapy, 15(6), 768.

Mao XG, et al. (2013) LIN28A facilitates the transformation of human neural stem cells and promotes glioblastoma tumorigenesis through a pro-invasive genetic program. Oncotarget, 4(7), 1050.

Hu Y, et al. (2013) A novel rapid-onset high-penetrance plasmacytoma mouse model driven by deregulation of cMYC cooperating with KRAS12V in BALB/c mice. Blood cancer journal, 3(11), e156.

Rodriguez R, et al. (2012) Modeling sarcomagenesis using multipotent mesenchymal stem cells. Cell research, 22(1), 62.

Hollander MC, et al. (2011) Akt1 deletion prevents lung tumorigenesis by mutant K-ras. Oncogene, 30(15), 1812.