

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 2, 2026

pCMV-Neo-Bam p53 wt

RRID:Addgene_16434

Type: Plasmid

Proper Citation

RRID:Addgene_16434

Plasmid Information

URL: <http://www.addgene.org/16434>

Proper Citation: RRID:Addgene_16434

Insert Name: p53

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:2144057](#)

Vector Backbone Description: Backbone Marker:Vogelstein Lab; Backbone Size:6600; Vector Backbone:pCMV-Neo-Bam; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: A 1.8kb XbaI fragment encoding wild-type p53 (from nucleotide -130 to 1671 relative to the ATG) was blunt-ended and ligated to BamHI linkers. This was then cloned into the unique BamHI site in the pCMV-Neo-Bam vector. This plasmid is also known as pC53-SN3.

Plasmid Name: pCMV-Neo-Bam p53 wt

Record Creation Time: 20220422T221928+0000

Record Last Update: 20260902T042645+0000

Ratings and Alerts

No rating or validation information has been found for pCMV-Neo-Bam p53 wt.

No alerts have been found for pCMV-Neo-Bam p53 wt.

Data and Source Information

Usage and Citation Metrics

We found 38 mentions in open access literature.

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

Indeglia A, et al. (2025) Targeted citrullination enables p53 binding to non-canonical sites. *Molecular cell*, 85(19), 3588.

Nakhaee N, et al. (2025) PTEN and p53 Combined Gene Therapy Promote Apoptosis and Chemosensitivity to Oxaliplatin in Colorectal Cancer: An In Vitro Study. *Advanced pharmaceutical bulletin*, 15(1), 154.

Zhang S, et al. (2024) Transfected SARS-CoV-2 spike DNA for mammalian cell expression inhibits p53 activation of p21(WAF1), TRAIL Death Receptor DR5 and MDM2 proteins in cancer cells and increases cancer cell viability after chemotherapy exposure. *Oncotarget*, 15, 275.

Meneghetti BV, et al. (2022) p53 mutants G245S and R337H associated with the Li-Fraumeni syndrome regulate distinct metabolic pathways. *Biochimie*, 198, 141.

Brown K, et al. (2022) Targeting mutant p53-R248W reactivates WT p53 function and alters the onco-metabolic profile. *Frontiers in oncology*, 12, 1094210.

Palanikumar L, et al. (2021) Protein mimetic amyloid inhibitor potently abrogates cancer-associated mutant p53 aggregation and restores tumor suppressor function. *Nature communications*, 12(1), 3962.

Gonzalez-Rellan MJ, et al. (2021) O-GlcNAcylated p53 in the liver modulates hepatic glucose production. *Nature communications*, 12(1), 5068.

Saini H, et al. (2021) Verteporfin disrupts multiple steps of autophagy and regulates p53 to sensitize osteosarcoma cells. *Cancer cell international*, 21(1), 52.

Long J, et al. (2020) Role for carbohydrate response element-binding protein (ChREBP) in high glucose-mediated repression of long noncoding RNA Tug1. *The Journal of biological chemistry*, 295(47), 15840.

Kutle I, et al. (2020) Murine Cytomegalovirus M25 Proteins Sequester the Tumor Suppressor Protein p53 in Nuclear Accumulations. *Journal of virology*, 94(20).

Mancikova V, et al. (2020) Performance of anti-CD19 chimeric antigen receptor T cells in genetically defined classes of chronic lymphocytic leukemia. *Journal for immunotherapy of cancer*, 8(1).

Ibnat N, et al. (2019) Transfection with p21 and p53 tumor suppressor plasmids suppressed breast tumor growth in syngeneic mouse model. *Gene*, 701, 32.

Yang-Hartwich Y, et al. (2019) p53-Pirh2 Complex Promotes Twist1 Degradation and Inhibits EMT. *Molecular cancer research : MCR*, 17(1), 153.

Aggarwal M, et al. (2019) p53 mutant-type in human prostate cancer cells determines the sensitivity to phenethyl isothiocyanate induced growth inhibition. *Journal of experimental & clinical cancer research : CR*, 38(1), 307.

Shin YJ, et al. (2019) Prognostic implications and interaction of L1 methylation and p53 expression statuses in advanced gastric cancer. *Clinical epigenetics*, 11(1), 77.

Lin S, et al. (2019) Intrinsic adriamycin resistance in p53-mutated breast cancer is related to the miR-30c/FANCF/REV1-mediated DNA damage response. *Cell death & disease*, 10(9), 666.

Saini H, et al. (2019) Autophagy Regulated by Gain of Function Mutant p53 Enhances Proteasomal Inhibitor-Mediated Cell Death through Induction of ROS and ERK in Lung Cancer Cells. *Journal of oncology*, 2019, 6164807.

Xu Y, et al. (2019) Mutated p53 Promotes the Symmetric Self-Renewal of Cisplatin-Resistant Lung Cancer Stem-Like Cells and Inhibits the Recruitment of Macrophages. *Journal of immunology research*, 2019, 7478538.

Salari A, et al. (2018) Effect of TP53 contact and conformational mutations on cell survival and erythropoiesis of human hematopoietic stem cells in a long term culture model. *Oncotarget*, 9(52), 29869.

Luff SA, et al. (2018) Role of p53 and transcription-independent p53-induced apoptosis in shear-stimulated megakaryocytic maturation, particle generation, and platelet biogenesis. *PloS one*, 13(9), e0203991.