

Resource Summary Report

Generated by [kravitz2](#) on Aug 6, 2026

pCMV4 p65

RRID:Addgene_21966

Type: Plasmid

Proper Citation

RRID:Addgene_21966

Plasmid Information

URL: <http://www.addgene.org/21966>

Proper Citation: RRID:Addgene_21966

Insert Name: NFkB p65 subunit

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:1542686](#)

Vector Backbone Description: Backbone Marker:Andersson,S. et al, J. Biol. Chem. 264 (14), 8222-8229 (1989); Backbone Size:4874; Vector Backbone:pCMV4; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCMV4 p65

Relevant Mutation: This construct was the product of 3 subcloning procedures: 1. XbaI-EcoRI-p65-EcoRI-KpnI from pBluescript II SK +/- was digested with XbaI/KpnI, and subcloned to M13 mp19. 2. HindIII-XbaI-p65-HindIII-KpnI from the M13 mp19 construct was digested with HindIII, then subcloned into pCMV4. 3. The resulting pCMV4 p65 plasmid can be liberated using HindIII, with a size of ~2.5 kb. The large size (p65 is only 1.5kb) is due to the inclusion of multiple polylinkers from pBluescript and M13mp19 as well as non-coding regions of p65.

Record Creation Time: 20220422T222057+0000

Record Last Update: 20260801T081010+0000

Ratings and Alerts

No rating or validation information has been found for pCMV4 p65.

No alerts have been found for pCMV4 p65.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 41 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Tofaute MJ, et al. (2024) SARS-CoV-2 NSP14 MTase activity is critical for inducing canonical NF- κ B activation. Bioscience reports, 44(1).

Ramar V, et al. (2024) Interaction of NF- κ B and FOSL1 drives glioma stemness. Cellular and molecular life sciences : CMLS, 81(1), 255.

Li Y, et al. (2024) Enhanced NF- κ B activation via HIV-1 Tat-TRAF6 cross-talk. Science advances, 10(3), eadi4162.

Zhu S, et al. (2023) CDK1 bridges NF- κ B and β -catenin signaling in response to H. pylori infection in gastric tumorigenesis. Cell reports, 42(1), 112005.

Nakano T, et al. (2022) Novel POLE mutations identified in patients with IMAGE-I syndrome cause aberrant subcellular localisation and protein degradation in the nucleus. Journal of medical genetics, 59(11), 1116.

Morel KL, et al. (2021) NF- κ B Blockade with Oral Administration of Dimethylaminoparthenolide (DMAPT), Delays Prostate Cancer Resistance to Androgen Receptor (AR) Inhibition and Inhibits AR Variants. Molecular cancer research : MCR, 19(7), 1137.

Jabłońska E, et al. (2020) DEPTOR is a microRNA-155 target regulating migration and cytokine production in diffuse large B-cell lymphoma cells. Experimental hematology, 88, 56.

Wang X, et al. (2019) Cysteine thiol oxidation on SIRT2 regulates inflammation in obese mice with sepsis. Inflammation, 42(1), 156.

Jin X, et al. (2019) Phosphorylated RB Promotes Cancer Immunity by Inhibiting NF- κ B Activation and PD-L1 Expression. Molecular cell, 73(1), 22.

Johnston AD, et al. (2019) Functional genetic variants can mediate their regulatory effects through alteration of transcription factor binding. Nature communications, 10(1), 3472.

Mao G, et al. (2019) Regulation of PLPP3 gene expression by NF- κ B family transcription factors. The Journal of biological chemistry, 294(38), 14009.

Zhang J, et al. (2019) High glucose induces apoptosis of HUVECs in a mitochondria-dependent manner by suppressing hexokinase 2 expression. Experimental and

therapeutic medicine, 18(1), 621.

Pereira DM, et al. (2019) MEK5/ERK5 activation regulates colon cancer stem-like cell properties. *Cell death discovery*, 5, 68.

Bury M, et al. (2019) NFE2L3 Controls Colon Cancer Cell Growth through Regulation of DUX4, a CDK1 Inhibitor. *Cell reports*, 29(6), 1469.

Xiang S, et al. (2018) Crosstalk of NF- κ B/P65 and LncRNA HOTAIR-Mediated Repression of MUC1 Expression Contribute to Synergistic Inhibition of Castration-Resistant Prostate Cancer by Polyphyllin 1-Enzalutamide Combination Treatment. *Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology*, 47(2), 759.

Intuyod K, et al. (2018) Anthocyanin complex exerts anti-cholangiocarcinoma activities and improves the efficacy of drug treatment in a gemcitabine-resistant cell line. *International journal of oncology*, 52(5), 1715.

Shen Y, et al. (2017) Bioenergetic state regulates innate inflammatory responses through the transcriptional co-repressor CtBP. *Nature communications*, 8(1), 624.

Li M, et al. (2017) Induction of Apoptosis by Berberine in Hepatocellular Carcinoma HepG2 Cells via Downregulation of NF- κ B. *Oncology research*, 25(2), 233.

Mao G, et al. (2016) Nuclear factor- κ B regulates expression of platelet phospholipase C- γ 2 (PLCB2). *Thrombosis and haemostasis*, 116(5), 931.

Xi G, et al. (2016) CD133 and DNA-PK regulate MDR1 via the PI3K- or Akt-NF- κ B pathway in multidrug-resistant glioblastoma cells in vitro. *Oncogene*, 35(2), 241.