

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

pCMX IκB alpha M

RRID:Addgene_12329

Type: Plasmid

Proper Citation

RRID:Addgene_12329

Plasmid Information

URL: <http://www.addgene.org/12329>

Proper Citation: RRID:Addgene_12329

Insert Name: IκB alpha M

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:8864120](#)

Vector Backbone Description: Backbone Size:4500; Vector Backbone:pCMX; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: IκB alpha M was generated by digestion of plasmids pCMX-IκBS32/36A and pCMX-IκBMutF with Eco NI and Bst EII and ligation of the small S32/36A fragment to the large vector/IκBMutF fragment.

Plasmid Name: pCMX IκB alpha M

Relevant Mutation: Dominant-negative mutant. Many signal transduction pathways resulting in NF-κB activation culminate in a serine phosphorylation of IκB on residues 32 and 36. Phosphorylation of the COOH-terminal PEST sequence has been implicated in constitutive turnover of IκB. We combined the NH2- and COOH-terminal phosphorylation mutants into a single cDNA for this plasmid.

Record Creation Time: 20220422T221645+0000

Record Last Update: 20260815T080353+0000

Ratings and Alerts

No rating or validation information has been found for pCMX IκB α M.

No alerts have been found for pCMX IκB α M.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Yang H, et al. (2020) The GTPase KRAS suppresses the p53 tumor suppressor by activating the NRF2-regulated antioxidant defense system in cancer cells. The Journal of biological chemistry, 295(10), 3055.

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

Mabe NW, et al. (2018) Epigenetic silencing of tumor suppressor Par-4 promotes chemoresistance in recurrent breast cancer. The Journal of clinical investigation, 128(10), 4413.

Machitani M, et al. (2017) Suppression of Oncolytic Adenovirus-Mediated Hepatotoxicity by Liver-Specific Inhibition of NF-κB. Molecular therapy oncolytics, 7, 76.

Machitani M, et al. (2016) NF-κB promotes leaky expression of adenovirus genes in a replication-incompetent adenovirus vector. Scientific reports, 6, 19922.

Rodrigues PM, et al. (2015) Inhibition of NF-κB by deoxycholic acid induces miR-21/PDCD4-dependent hepatocellular apoptosis. Scientific reports, 5, 17528.

Karra R, et al. (2015) Myocardial NF-κB activation is essential for zebrafish heart regeneration. Proceedings of the National Academy of Sciences of the United States of America, 112(43), 13255.

Bauerle KT, et al. (2014) Nuclear factor κB-dependent regulation of angiogenesis, and metastasis in an in vivo model of thyroid cancer is associated with secreted interleukin-8. The Journal of clinical endocrinology and metabolism, 99(8), E1436.

Casta A, et al. (2012) Hairless and NFκB form a positive feedback loop after UVB and TNFα stimulation. Photochemistry and photobiology, 88(5), 1173.