

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

M7 pdnPKA-GFP

RRID:Addgene_16716

Type: Plasmid

Proper Citation

RRID:Addgene_16716

Plasmid Information

URL: <http://www.addgene.org/16716>

Proper Citation: RRID:Addgene_16716

Insert Name: dnPKA

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:8812120](#)

Vector Backbone Description: Backbone Size:4100; Vector Backbone:CS2+; Vector Types:Xenopus Expression; Bacterial Resistance:Ampicillin

Comments: Insert: dominant negative Protein Kinase A-bright green fluorescent protein fusion protein. To make sense RNA, for expression, cut with Not1 and transcribe with SP6. Plasmid History: Constructed by Anne Ungar in 1996. Citation: Ungar and Moon (1996) Developmental Biology 178:186-191.

Plasmid Name: M7 pdnPKA-GFP

Relevant Mutation: Dominant negative. Mutations at cAMP binding sites.

Record Creation Time: 20220422T221940+0000

Record Last Update: 20260815T080941+0000

Ratings and Alerts

No rating or validation information has been found for M7 pdnPKA-GFP.

No alerts have been found for M7 pdnPKA-GFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Lin TY, et al. (2024) Cardiac contraction and relaxation are regulated by distinct subcellular cAMP pools. *Nature chemical biology*, 20(1), 62.

Truong ME, et al. (2021) Vertebrate cells differentially interpret ciliary and extraciliary cAMP. *Cell*, 184(11), 2911.

Lucia K, et al. (2020) Hypoxia and the hypoxia inducible factor 1? activate protein kinase A by repressing RII beta subunit transcription. *Oncogene*, 39(16), 3367.

Buckner CA, et al. (2018) Exposure to a specific time-varying electromagnetic field inhibits cell proliferation via cAMP and ERK signaling in cancer cells. *Bioelectromagnetics*, 39(3), 217.

Patra KC, et al. (2018) Mutant GNAS drives pancreatic tumorigenesis by inducing PKA-mediated SIK suppression and reprogramming lipid metabolism. *Nature cell biology*, 20(7), 811.

Komal P, et al. (2015) cAMP-dependent protein kinase inhibits ?7 nicotinic receptor activity in layer 1 cortical interneurons through activation of D1/D5 dopamine receptors. *The Journal of physiology*, 593(16), 3513.

Ditte P, et al. (2011) Phosphorylation of carbonic anhydrase IX controls its ability to mediate extracellular acidification in hypoxic tumors. *Cancer research*, 71(24), 7558.