

Resource Summary Report

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

pCMV p16 INK4A

RRID:Addgene_10916

Type: Plasmid

Proper Citation

RRID:Addgene_10916

Plasmid Information

URL: <http://www.addgene.org/10916>

Proper Citation: RRID:Addgene_10916

Insert Name: p16 INK4

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:7603984](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5446; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: A human pl6ink4 cDNA was obtained by PCR amplification of a HeLa cell cDNA library with a 5' primer (5'-GGAATTCACCACCATGGAGCCTTCGGCTGAC-3') and a 3' primer (5'-GGAATTCTCGAGTCAATCGGGGATATCTGAGGGACC-3'). A 472-bp fragment was amplified, purified on a low-melting agarose gel, and cloned directly into pGEM-T (Promega). The resulting plasmid was then used to isolate an EcoRI/Xho I fragment containing the pl6ink4 coding region, which was cloned into pcDNA3 (Invitrogen) to construct pCMV.pl6ink4. The insert corresponds to isoform 1 but is missing the first 8 amino acids.

Plasmid Name: pCMV p16 INK4A

Record Creation Time: 20220422T221530+0000

Record Last Update: 20260815T080126+0000

Ratings and Alerts

No rating or validation information has been found for pCMV p16 INK4A.

No alerts have been found for pCMV p16 INK4A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Sallbach J, et al. (2024) The cell cycle inhibitor p21CIP1 is essential for irinotecan-induced senescence and plays a decisive role in re-sensitization of temozolomide-resistant glioblastoma cells to irinotecan. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 181, 117634.

Abaandou L, et al. (2021) Knockout of the caspase 8-associated protein 2 gene improves recombinant protein expression in HEK293 cells through up-regulation of the cyclin-dependent kinase inhibitor 2A gene. *Biotechnology and bioengineering*, 118(1), 186.

Che H, et al. (2020) p16 deficiency attenuates intervertebral disc degeneration by adjusting oxidative stress and nucleus pulposus cell cycle. *eLife*, 9.

Niu LL, et al. (2018) ID1-induced p16/IL6 axis activation contributes to the resistant of hepatocellular carcinoma cells to sorafenib. *Cell death & disease*, 9(9), 852.

Bao X, et al. (2018) Up-regulated expression of E2F2 is necessary for p16INK4a-induced cartilage injury. *BMC musculoskeletal disorders*, 19(1), 334.