

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pcDNA3-myc3-CUL1

RRID:Addgene_19896

Type: Plasmid

Proper Citation

RRID:Addgene_19896

Plasmid Information

URL: <http://www.addgene.org/19896>

Proper Citation: RRID:Addgene_19896

Insert Name: cullin 1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10230407](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5437; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: When we made this plasmid, we put a Nco1 site at the start codon (original cDNA was CAATGTCG but they mutated to CcATGgCG). It made an S2A mutation. There is also a K689E mutation. These mutations have no effect on protein function.

Plasmid Name: pcDNA3-myc3-CUL1

Record Creation Time: 20220422T222048+0000

Record Last Update: 20260725T074414+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-myc3-CUL1.

No alerts have been found for pcDNA3-myc3-CUL1.

Data and Source Information

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Baptista SJS, et al. (2025) CSP ubiquitylation favours Plasmodium berghei survival during early liver stage infection. Scientific reports, 15(1), 14498.

Lee D, et al. (2024) Diabetic sensory neuropathy and insulin resistance are induced by loss of UCHL1 in Drosophila. Nature communications, 15(1), 468.

Johnson BS, et al. (2024) Targeted degradation of extracellular mitochondrial aspartyl-tRNA synthetase modulates immune responses. Nature communications, 15(1), 6172.

Khalil MI, et al. (2024) The membrane-associated ubiquitin ligase MARCHF8 stabilizes the human papillomavirus oncoprotein E7 by degrading CUL1 and UBE2L3 in head and neck cancer. Journal of virology, 98(2), e0172623.

Hänle-Kreidler S, et al. (2022) The SCF-FBXW7 E3 ubiquitin ligase triggers degradation of histone 3 lysine 4 methyltransferase complex component WDR5 to prevent mitotic slippage. The Journal of biological chemistry, 298(12), 102703.

Wang Q, et al. (2022) Post-translational control of beige fat biogenesis by PRDM16 stabilization. Nature, 609(7925), 151.

Naik NG, et al. (2021) KDM2B Overexpression Facilitates Lytic De Novo KSHV Infection by Inducing AP-1 Activity Through Interaction with the SCF E3 Ubiquitin Ligase Complex. Journal of virology, 95(11).

Yin C, et al. (2021) Proteolysis of γ -tubulin small complex proteins is mediated by the ubiquitin-proteasome system. FEBS letters, 595(15), 1987.

Bayraktar G, et al. (2020) Synaptic control of DNA methylation involves activity-dependent degradation of DNMT3A1 in the nucleus. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 45(12), 2120.

Lasso G, et al. (2019) A Structure-Informed Atlas of Human-Virus Interactions. Cell, 178(6), 1526.

Chung D, et al. (2019) Inhibition of neddylation induces mitotic defects and alters MKLP1 accumulation at the midbody during cytokinesis. Cell cycle (Georgetown, Tex.), 18(10), 1135.

Zhou W, et al. (2018) UBE2M Is a Stress-Inducible Dual E2 for Neddylation and Ubiquitylation that Promotes Targeted Degradation of UBE2F. Molecular cell, 70(6), 1008.

González-Terán B, et al. (2016) p38 α and β promote heart hypertrophy by targeting the mTOR-inhibitory protein DEPTOR for degradation. Nature communications, 7, 10477.

Mudhasani R, et al. (2016) Protein Kinase R Degradation Is Essential for Rift Valley Fever Virus Infection and Is Regulated by SKP1-CUL1-F-box (SCF)FBXW11-NSs E3 Ligase. PLoS pathogens, 12(2), e1005437.

Pentecost M, et al. (2015) Evidence for ubiquitin-regulated nuclear and subnuclear trafficking among Paramyxovirinae matrix proteins. PLoS pathogens, 11(3), e1004739.

Staropoli JF, et al. (2012) A homozygous mutation in KCTD7 links neuronal ceroid lipofuscinosis to the ubiquitin-proteasome system. American journal of human genetics, 91(1), 202.

Bhutani S, et al. (2012) Dysregulation of core components of SCF complex in poly-glutamine disorders. Cell death & disease, 3(11), e428.