

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

pcDNA3-myc3-CUL4A

RRID:Addgene_19951

Type: Plasmid

Proper Citation

RRID:Addgene_19951

Plasmid Information

URL: <http://www.addgene.org/19951>

Proper Citation: RRID:Addgene_19951

Insert Name: CUL4A (cullin 4A)

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:12504025](#)

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

Comments: The CUL4A insert in this plasmid contains a K644R substitution when compared to GenBank reference sequence NM_001008895.

Plasmid Name: pcDNA3-myc3-CUL4A

Record Creation Time: 20220422T222048+0000

Record Last Update: 20260815T081150+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-myc3-CUL4A.

No alerts have been found for pcDNA3-myc3-CUL4A.

Data and Source Information

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Xu T, et al. (2025) Targeted O-GlcNAcylation of CK2? Triggers Its Ubiquitin-Proteasome Degradation and Alters Downstream Phosphorylation. ACS chemical biology, 20(7), 1646.

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

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

Fu SJ, et al. (2020) CUL4-DDB1-CRBN E3 Ubiquitin Ligase Regulates Proteostasis of CLC-2 Chloride Channels: Implication for Aldosteronism and Leukodystrophy. Cells, 9(6).

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.

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.

Wang YT, et al. (2017) Ubiquitination of tumor suppressor PML regulates prometastatic and immunosuppressive tumor microenvironment. The Journal of clinical investigation, 127(8), 2982.

Lin S, et al. (2017) A FOXO1-induced oncogenic network defines the AML1-ETO preleukemic program. Blood, 130(10), 1213.

Hsu PH, et al. (2017) Cullin 7 mediates proteasomal and lysosomal degradations of rat Eag1 potassium channels. Scientific reports, 7, 40825.

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.

Ren W, et al. (2016) Jak-STAT3 pathway triggers DICER1 for proteasomal degradation by ubiquitin ligase complex of CUL4A(DCAF1) to promote colon cancer development. Cancer letters, 375(2), 209.

Peng YJ, et al. (2016) Regulation of CLC-1 chloride channel biosynthesis by FKBP8 and Hsp90?. Scientific reports, 6, 32444.

Chen YA, et al. (2015) The Cullin 4A/B-DDB1-Cereblon E3 Ubiquitin Ligase Complex Mediates the Degradation of CLC-1 Chloride Channels. Scientific reports, 5, 10667.

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

Wu Z, et al. (2012) Targeted ubiquitination and degradation of G-protein-coupled receptor kinase 5 by the DDB1-CUL4 ubiquitin ligase complex. *PloS one*, 7(8), e43997.