

Resource Summary Report

Generated by [NIF](#) on Aug 22, 2026

pRK5-HA-Ubiquitin-KO

RRID:Addgene_17603

Type: Plasmid

Proper Citation

RRID:Addgene_17603

Plasmid Information

URL: <http://www.addgene.org/17603>

Proper Citation: RRID:Addgene_17603

Insert Name: Ubiquitin C

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:15728840](#)

Vector Backbone Description: Backbone Size:4800; Vector Backbone:pRK5-HA; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: The ubiquitin KO sequence in this plasmid contains the following lysine to arginine mutations: K6R, K11R, K27R, K29R, K33R, K48R and K63R.

Plasmid Name: pRK5-HA-Ubiquitin-KO

Relevant Mutation: KO: all lysines mutated to arginines

Record Creation Time: 20220422T222016+0000

Record Last Update: 20260815T081054+0000

Ratings and Alerts

No rating or validation information has been found for pRK5-HA-Ubiquitin-KO.

No alerts have been found for pRK5-HA-Ubiquitin-KO.

Data and Source Information

Usage and Citation Metrics

We found 88 mentions in open access literature.

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

Varhoshkova S, et al. (2026) RNA polymerase II drives FUS and EWSR1 exclusion from damaged chromatin. *Cell reports*, 45(4), 117236.

Taniyama D, et al. (2026) Ubiquitin-dependent recruitment of SLFN11 to chromatin is regulated by deubiquitinase (DUB) and RNF168. *Research square*.

Mennerich D, et al. (2025) The E3 ubiquitin ligase DTX3L and the deubiquitinase USP28 fine-tune DNA repair through mutual regulation of their protein levels. *iScience*, 28(8), 112990.

Lubyova B, et al. (2025) UBE2O, a host ubiquitin-conjugating enzyme, is a key regulator of hepatitis B virus maturation and egress. *The Journal of biological chemistry*, 301(11), 110750.

Chathuranga K, et al. (2025) The E3 ubiquitin ligase MARCH2 controls TNF-?? mediated inflammation by autoubiquitination. *Cell communication and signaling : CCS*, 23(1), 257.

Bhat MA, et al. (2025) The E3 ubiquitin ligase MARCH1 mediates downregulation of plasma membrane GABAB receptors under ischemic conditions by inhibiting fast receptor recycling. *Scientific reports*, 15(1), 1330.

Xia J, et al. (2024) An apicoplast-localized deubiquitinase contributes to the cell growth and apicoplast homeostasis of *Toxoplasma gondii*. *Veterinary research*, 55(1), 10.

Mijatovic E, et al. (2024) Cellular turnover and degradation of the most common missense cystathionine beta-synthase variants causing homocystinuria. *Protein science : a publication of the Protein Society*, 33(8), e5123.

Schiefer S, et al. (2024) Proximal protein landscapes of the type I interferon signaling cascade reveal negative regulation by PJA2. *Nature communications*, 15(1), 4484.

Hermosilla VE, et al. (2024) Casein kinase 2 phosphorylates and induces the SALL2 tumor suppressor degradation in colon cancer cells. *Cell death & disease*, 15(3), 223.

Xia M, et al. (2024) UBR1 promotes anaplastic thyroid carcinoma progression via stabilizing YAP through monoubiquitylation. *Scientific reports*, 14(1), 19496.

Xu P, et al. (2024) Proteostasis perturbation of N-Myc leveraging HSP70 mediated protein turnover improves treatment of neuroendocrine prostate cancer. *Nature communications*, 15(1), 6626.

Chen Y, et al. (2024) DUB3 is a MAGEA3 deubiquitinase and a potential therapeutic target in hepatocellular carcinoma. *iScience*, 27(3), 109181.

Perrard J, et al. (2023) Multiple E3 ligases control tankyrase stability and function. *bioRxiv* : the preprint server for biology.

Lurette O, et al. (2023) Aggregation of alpha-synuclein disrupts mitochondrial metabolism and induce mitophagy via cardiolipin externalization. *Cell death & disease*, 14(11), 729.

Li S, et al. (2023) Fyn deficiency inhibits oxidative stress by decreasing c-Cbl-mediated ubiquitination of Sirt1 to attenuate diabetic renal fibrosis. *Metabolism: clinical and experimental*, 139, 155378.

Huang Q, et al. (2022) UBE2O and USP7 co-regulate RECQL4 ubiquitinylation and homologous recombination-mediated DNA repair. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 36(1), e22112.

Shirasaki T, et al. (2022) Nonlytic cellular release of hepatitis A virus requires dual capsid recruitment of the ESCRT-associated Bro1 domain proteins HD-PTP and ALIX. *PLoS pathogens*, 18(8), e1010543.

Ito N, et al. (2022) MITOL regulates phosphatidic acid-binding activity of RMDN3/PTPIP51. *Journal of biochemistry*, 171(5), 529.

Wu J, et al. (2021) SARS-CoV-2 ORF9b inhibits RIG-I-MAVS antiviral signaling by interrupting K63-linked ubiquitination of NEMO. *Cell reports*, 34(7), 108761.