

Resource Summary Report

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

pRK5-HA-Ubiquitin-K48R

RRID:Addgene_17604

Type: Plasmid

Proper Citation

RRID:Addgene_17604

Plasmid Information

URL: <http://www.addgene.org/17604>

Proper Citation: RRID:Addgene_17604

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

Plasmid Name: pRK5-HA-Ubiquitin-K48R

Relevant Mutation: K48R (expected to disrupt G76-K48 ubiquitin chain assembly)

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-K48R.

No alerts have been found for pRK5-HA-Ubiquitin-K48R.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 52 mentions in open access literature.

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

Guo Y, et al. (2025) Exploring Negative Feedback Mechanisms in the PTEN-ACE Axis: Application of Electrosorb Hydrogel-Based Gene Delivery for Intervertebral Disc Regeneration. *International journal of biological sciences*, 21(8), 3416.

Li C, et al. (2025) TRIM21 promotes type I interferon by inhibiting the autophagic degradation of STING via p62/SQSTM1 ubiquitination in systemic lupus erythematosus. *Acta biochimica et biophysica Sinica*, 57(5), 834.

Shen N, et al. (2025) HSPA9 contributes to tumor progression and ferroptosis resistance by enhancing USP14-driven SLC7A11 deubiquitination in multiple myeloma. *Cell reports*, 44(5), 115720.

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.

Xu H, et al. (2025) CUL1-neddylation contributes to K29-linked ubiquitination on p27 for autophagic degradation in sorafenib-resistant liver cancer. *Cell biology and toxicology*, 41(1), 61.

Yang S, et al. (2024) The GATOR2 complex maintains lysosomal-autophagic function by inhibiting the protein degradation of MiT/TFEs. *Molecular cell*, 84(4), 727.

Chen Y, et al. (2024) HSV-1-induced N6-methyladenosine reprogramming via ICP0-mediated suppression of METTL14 potentiates oncolytic activity in glioma. *Cell reports*, 43(10), 114756.

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 Z, et al. (2024) Suppression of Skp2 contributes to sepsis-induced acute lung injury by enhancing ferroptosis through the ubiquitination of SLC3A2. *Cellular and molecular life sciences : CMLS*, 81(1), 325.

McMahon A, et al. (2024) Ubiquitin-mediated regulation of APE2 protein abundance. *The Journal of biological chemistry*, 300(6), 107337.

Sun X, et al. (2023) HDAC4 mediated LHPP deacetylation enhances its destabilization and promotes the proliferation and metastasis of nasopharyngeal carcinoma. *Cancer letters*, 562, 216158.

Wang F, et al. (2023) SERBP1 Promotes Stress Granule Clearance by Regulating 26S Proteasome Activity and G3BP1 Ubiquitination and Protects Male Germ Cells from Thermostimuli Damage. *Research (Washington, D.C.)*, 6, 0091.

Zhang S, et al. (2023) PXR triggers YAP-TEAD binding and Sirt2-driven YAP deacetylation and polyubiquitination to promote liver enlargement and regeneration in mice. *Pharmacological research*, 188, 106666.

Celada SI, et al. (2023) Lysosome-dependent FOXA1 ubiquitination contributes to luminal lineage of advanced prostate cancer. *Molecular oncology*, 17(10), 2126.

Shin J, et al. (2022) USP13 regulates HMGB1 stability and secretion through its deubiquitinase activity. *Molecular medicine (Cambridge, Mass.)*, 28(1), 164.

Jin S, et al. (2022) Suppression of ACE2 SUMOylation protects against SARS-CoV-2 infection through TOLLIP-mediated selective autophagy. *Nature communications*, 13(1), 5204.

Wang YT, et al. (2022) K48/K63-linked polyubiquitination of ATG9A by TRAF6 E3 ligase regulates oxidative stress-induced autophagy. *Cell reports*, 38(8), 110354.

Kolapalli SP, et al. (2021) RNA-Binding RING E3-Ligase DZIP3/hRUL138 Stabilizes Cyclin D1 to Drive Cell-Cycle and Cancer Progression. *Cancer research*, 81(2), 315.

Wang Z, et al. (2021) PCV2 targets cGAS to inhibit type I interferon induction to promote other DNA virus infection. *PLoS pathogens*, 17(9), e1009940.

Zhang S, et al. (2021) mTORC1 Promotes ARID1A Degradation and Oncogenic Chromatin Remodeling in Hepatocellular Carcinoma. *Cancer research*, 81(22), 5652.