Resource Summary Report

Generated by dkNET on Sep 15, 2026

hCathepsin B

RRID:Addgene_11249
Type: Plasmid

Proper Citation

RRID:Addgene_11249

Plasmid Information

URL: http://www.addgene.org/11249

Proper Citation: RRID:Addgene_11249

Insert Name: cathepsin B

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:16339146

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5428; Vector Backbone:pcDNA3.1(-); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: See author's map for more information.

Plasmid Name: hCathepsin B

Record Creation Time: 20220422T221548+0000

Record Last Update: 20260912T091522+0000

Ratings and Alerts

No rating or validation information has been found for hCathepsin B.

No alerts have been found for hCathepsin B.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 13 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Turner Z, et al. (2025) Production of human cathepsins using Expi293??? mammalian cell expression system for off-target activity of cysteine protease inhibitor screening. Protein science : a publication of the Protein Society, 34(11), e70361.

Pandey SP, et al. (2025) Gasdermin C cleavage by Cathepsin S modulates Rab7 vesicles in intestinal epithelial cells to amplify anti-helminth immunity. Immunity.

Pastorio C, et al. (2023) Impact of mutations defining SARS-CoV-2 Omicron subvariants BA.2.12.1 and BA.4/5 on Spike function and neutralization. iScience, 26(11), 108299.

Gutierrez-Ruiz OL, et al. (2023) Ectopic expression of DOCK8 regulates lysosome-mediated pancreatic tumor cell invasion. Cell reports, 42(9), 113042.

Kim MJ, et al. (2022) Lysosomal ceramides regulate cathepsin B-mediated processing of saposin C and glucocerebrosidase activity. Human molecular genetics, 31(14), 2424.

Huang P, et al. (2022) Lysosomal ATP Transporter SLC17A9 Controls Cell Viability via Regulating Cathepsin D. Cells, 11(5).

Bhuiyan AI, et al. (2021) Clickable, selective, and cell-permeable activity-based probe of human cathepsin B - Minimalistic approach for enhanced selectivity. Bioorganic chemistry, 117, 105463.

Mizunoe Y, et al. (2020) Cathepsin B overexpression induces degradation of perilipin 1 to cause lipid metabolism dysfunction in adipocytes. Scientific reports, 10(1), 634.

Han L, et al. (2020) The Natural Compound Oblongifolin C Exhibits Anticancer Activity by Inhibiting HSPA8 and Cathepsin B In Vitro. Frontiers in pharmacology, 11, 564833.

Chen CH, et al. (2019) Study of Cathepsin B inhibition in VEGFR TKI treated human renal cell carcinoma xenografts. Oncogenesis, 8(3), 15.

Wang Y, et al. (2019) Drug screening with human SMN2 reporter identifies SMN protein stabilizers to correct SMA pathology. Life science alliance, 2(2).

Luong B, et al. (2018) The vacuolar-type ATPase inhibitor archazolid increases tumor cell adhesion to endothelial cells by accumulating extracellular collagen. PloS one, 13(9), e0203053.

Mizunoe Y, et al. (2017) Involvement of lysosomal dysfunction in autophagosome accumulation and early pathologies in adipose tissue of obese mice. Autophagy, 13(4), 642.