

# Resource Summary Report

Generated by [T1D](#) on Sep 19, 2026

## hCathepsin B

RRID:Addgene\_11249

Type: Plasmid

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### Proper Citation

RRID:Addgene\_11249

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### 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:** 20260919T090532+0000

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### Ratings and Alerts

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

No alerts have been found for hCathepsin B.

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### 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 [T1D](#) .

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

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.

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.

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

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

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.