

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pRK5M-ADAM10

RRID:Addgene_31717

Type: Plasmid

Proper Citation

RRID:Addgene_31717

Plasmid Information

URL: <http://www.addgene.org/31717>

Proper Citation: RRID:Addgene_31717

Insert Name: ADAM10

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19595713](#)

Vector Backbone Description: Backbone Size:4716; Vector Backbone:pRK5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pRK5M-ADAM10

Record Creation Time: 20220422T222137+0000

Record Last Update: 20260725T074545+0000

Ratings and Alerts

No rating or validation information has been found for pRK5M-ADAM10.

No alerts have been found for pRK5M-ADAM10.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Olety B, et al. (2025) The ectodomain sheddase ADAM10 restricts HIV-1 propagation and is counteracted by Nef. *Science advances*, 11(16), eadt1836.

Zhang Q, et al. (2024) Contactin-associated protein-like 2 (CNTNAP2) mutations impair the essential γ -secretase cleavages, leading to autism-like phenotypes. *Signal transduction and targeted therapy*, 9(1), 51.

Lipper CH, et al. (2023) Structural basis for membrane-proximal proteolysis of substrates by ADAM10. *Cell*, 186(17), 3632.

Pastore F, et al. (2023) A Bioengineering Strategy to Control ADAM10 Activity in Living Cells. *International journal of molecular sciences*, 24(2).

Brandimarti R, et al. (2023) The US9-Derived Protein gPTB9TM Modulates APP Processing Without Targeting Secretase Activities. *Molecular neurobiology*, 60(4), 1811.

Lipper CH, et al. (2022) Crystal structure of the Tspan15 LEL domain reveals a conserved ADAM10 binding site. *Structure (London, England : 1993)*, 30(2), 206.

Ma X, et al. (2021) ADAM17 mediates ectodomain shedding of the soluble VLDL receptor fragment in the retinal epithelium. *The Journal of biological chemistry*, 297(4), 101185.

Koo CZ, et al. (2020) The tetraspanin Tspan15 is an essential subunit of an ADAM10 scissor complex. *The Journal of biological chemistry*, 295(36), 12822.

Dinamarca MC, et al. (2019) Complex formation of APP with GABAB receptors links axonal trafficking to amyloidogenic processing. *Nature communications*, 10(1), 1331.

Rasila T, et al. (2019) Astroprincin (FAM171A1, C10orf38): A Regulator of Human Cell Shape and Invasive Growth. *The American journal of pathology*, 189(1), 177.

Hou L, et al. (2018) PAX2 may induce ADAM10 expression in renal tubular epithelial cells and contribute to epithelial-to-mesenchymal transition. *International urology and nephrology*, 50(9), 1729.

Lu Y, et al. (2017) Regulated intramembrane proteolysis of the AXL receptor kinase generates an intracellular domain that localizes in the nucleus of cancer cells. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 31(4), 1382.

Seegar TCM, et al. (2017) Structural Basis for Regulated Proteolysis by the γ -Secretase ADAM10. *Cell*, 171(7), 1638.

Cai Z, et al. (2016) Activation of cell-surface proteases promotes necroptosis, inflammation and cell migration. *Cell research*, 26(8), 886.

Marcos S, et al. (2015) Secreted frizzled related proteins modulate pathfinding and fasciculation of mouse retina ganglion cell axons by direct and indirect mechanisms. *The*

Journal of neuroscience : the official journal of the Society for Neuroscience, 35(11), 4729.

Atkin G, et al. (2014) F-box only protein 2 (Fbxo2) regulates amyloid precursor protein levels and processing. The Journal of biological chemistry, 289(10), 7038.