

Resource Summary Report

Generated by [kravitz2](#) on Aug 12, 2026

pcDNA3 APEX2-NES

RRID:Addgene_49386

Type: Plasmid

Proper Citation

RRID:Addgene_49386

Plasmid Information

URL: <http://www.addgene.org/49386>

Proper Citation: RRID:Addgene_49386

Insert Name: Flag - APEX2 - NES

Organism: soybean

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25419960](#)

Vector Backbone Description: Backbone Size:5385; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3 APEX2-NES

Relevant Mutation: K14D, W41F, E112K, A134P on soybean APX; improved for proteomics and EM applications

Record Creation Time: 20220422T222254+0000

Record Last Update: 20260808T081748+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3 APEX2-NES.

No alerts have been found for pcDNA3 APEX2-NES.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 74 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Elhaw AT, et al. (2026) RHOV Is a Detachment-Responsive Rho GTPase Necessary for Ovarian Cancer Peritoneal Metastasis. *Cancer research*, 86(11), 2623.

Seo KW, et al. (2026) Quantitative profiling of RNA modifications enriched in non-membrane-bound cellular structures using APEX-RNA-MS. *Cell chemical biology*.

Fatima K, et al. (2025) Ribosome-binding protein 1 maintains peroxisome biogenesis. *Journal of cell science*, 138(24).

Fuller DM, et al. (2025) ATG2A engages Rab1a and ARFGAP1 positive membranes during autophagosome biogenesis. *bioRxiv : the preprint server for biology*.

Stassen OMJA, et al. (2025) Mechanosensitive interactions between Jag1 and Myo1c control Jag1 trafficking in endothelial cells. *iScience*, 28(12), 113879.

Romero-Zamora D, et al. (2025) A CPC-shelterin-BTR axis regulates mitotic telomere deprotection. *Nature communications*, 16(1), 2277.

Garg R, et al. (2025) Dopaminergic short axon cells integrate sensory and top-down inputs to enhance discriminative learning in the mouse olfactory bulb. *PLoS biology*, 23(9), e3003375.

Hughes SE, et al. (2025) A proximity labeling approach to identify proteins that associate with synaptonemal complex components in *Drosophila melanogaster* females. *bioRxiv : the preprint server for biology*.

Tuomivaara ST, et al. (2024) SLAPSHOT reveals rapid dynamics of extracellularly exposed proteome in response to calcium-activated plasma membrane phospholipid scrambling. *Communications biology*, 7(1), 1060.

Charneau S, et al. (2024) APEX2-based proximity proteomic analysis identifies candidate interactors for *Plasmodium falciparum* knob-associated histidine-rich protein in infected erythrocytes. *Scientific reports*, 14(1), 11242.

Kumar G, et al. (2023) Structure and Function of RhoBTB1 Required for Substrate Specificity and Cullin-3 Ubiquitination. *Function (Oxford, England)*, 4(5), zqad034.

Xu H, et al. (2023) Characterization of huntingtin interactomes and their dynamic responses in living cells by proximity proteomics. *Journal of neurochemistry*, 164(4), 512.

Ahmadian Elmi M, et al. (2023) Proteomic Analyses of the G Protein-Coupled Estrogen Receptor GPER1 Reveal Constitutive Links to Endoplasmic Reticulum, Glycosylation, Trafficking, and Calcium Signaling. *Cells*, 12(21).

Rey S, et al. (2023) Glial-dependent clustering of voltage-gated ion channels in *Drosophila* precedes myelin formation. *eLife*, 12.

Lyu Z, et al. (2023) Quantitative Measurement of Transthyretin Mistargeting by Proximity Labeling and Parallel Reaction Monitoring. *Frontiers in chemical biology*, 2.

Chen D, et al. (2023) Desmoglein 2 Functions as a Receptor for Fatty Acid Binding Protein 4 in Breast Cancer Epithelial Cells. *Molecular cancer research : MCR*, 21(8), 836.

Johnson BS, et al. (2022) MicroID2: A Novel Biotin Ligase Enables Rapid Proximity-Dependent Proteomics. *Molecular & cellular proteomics : MCP*, 21(7), 100256.

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

Krastev DB, et al. (2022) The ubiquitin-dependent ATPase p97 removes cytotoxic trapped PARP1 from chromatin. *Nature cell biology*, 24(1), 62.

Pardal AJ, et al. (2022) A specific role for importin-5 and NASP in the import and nuclear hand-off of monomeric H3. *eLife*, 11.