

Resource Summary Report

Generated by [kravitz2](#) on Aug 16, 2026

pcDNA3 Connexin43-GFP-APEX2

RRID:Addgene_49385

Type: Plasmid

Proper Citation

RRID:Addgene_49385

Plasmid Information

URL: <http://www.addgene.org/49385>

Proper Citation: RRID:Addgene_49385

Insert Name: Connexin43 - EGFP - APEX2

Organism: soybean

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25419960](#)

Vector Backbone Description: Backbone Size:5366; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3 Connexin43-GFP-APEX2

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

Record Creation Time: 20220422T222254+0000

Record Last Update: 20260815T081600+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3 Connexin43-GFP-APEX2.

No alerts have been found for pcDNA3 Connexin43-GFP-APEX2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Choi AY, et al. (2026) A novel anti-CD20, concabody, enhances immunotherapy efficacy by targeting MPZL1 and augmenting antibody-induced cell death. *Frontiers in oncology*, 16, 1748576.

Martins-Marques T, et al. (2023) Cx43 can form functional channels at the nuclear envelope and modulate gene expression in cardiac cells. *Open biology*, 13(11), 230258.

Kim R, et al. (2023) Engineered Extracellular Vesicles with Compound-Induced Cargo Delivery to Solid Tumors. *International journal of molecular sciences*, 24(11).

Hübner B, et al. (2022) Ultrastructure and nuclear architecture of telomeric chromatin revealed by correlative light and electron microscopy. *Nucleic acids research*, 50(9), 5047.

James C, et al. (2021) Sequestosome 1 Is Part of the Interaction Network of VAPB. *International journal of molecular sciences*, 22(24).

Kong H, et al. (2020) Genetically encoded X-ray cellular imaging for nanoscale protein localization. *National science review*, 7(7), 1218.

Sultana S, et al. (2020) Truncated mutants of beta-glucosidase 2 (GBA2) are localized in the mitochondrial matrix and cause mitochondrial fragmentation. *PloS one*, 15(6), e0233856.

Arthurton L, et al. (2020) Non-apoptotic caspase activation preserves Drosophila intestinal progenitor cells in quiescence. *EMBO reports*, 21(12), e48892.

Ástvaldsson Á, et al. (2019) Proximity Staining Using Enzymatic Protein Tagging in Diplomonads. *mSphere*, 4(2).

James C, et al. (2019) Proteomic mapping by rapamycin-dependent targeting of APEX2 identifies binding partners of VAPB at the inner nuclear membrane. *The Journal of biological chemistry*, 294(44), 16241.

Datta S, et al. (2019) Cerebellar ataxia disease-associated Snx14 promotes lipid droplet growth at ER-droplet contacts. *The Journal of cell biology*, 218(4), 1335.

Qiu W, et al. (2019) Determination of local chromatin interactions using a combined CRISPR and peroxidase APEX2 system. *Nucleic acids research*, 47(9), e52.

de Beer MA, et al. (2018) A small protein probe for correlated microscopy of endogenous proteins. *Histochemistry and cell biology*, 149(3), 261.

Ye M, et al. (2018) Multivesicular bodies mediate long-range retrograde NGF-TrkA signaling. *eLife*, 7.

Wallot-Hieke N, et al. (2018) Systematic analysis of ATG13 domain requirements for autophagy induction. *Autophagy*, 14(5), 743.

Benhalevy D, et al. (2018) Proximity-CLIP provides a snapshot of protein-occupied RNA elements in subcellular compartments. *Nature methods*, 15(12), 1074.

Mavlyutov TA, et al. (2017) APEX2-enhanced electron microscopy distinguishes sigma-1 receptor localization in the nucleoplasmic reticulum. *Oncotarget*, 8(31), 51317.

Bakunts A, et al. (2017) Ratiometric sensing of BiP-client versus BiP levels by the unfolded protein response determines its signaling amplitude. *eLife*, 6.

Chen M, et al. (2016) TRIM14 Inhibits cGAS Degradation Mediated by Selective Autophagy Receptor p62 to Promote Innate Immune Responses. *Molecular cell*, 64(1), 105.