Resource Summary Report

Generated by RRID on Aug 23, 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 RRID .

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.

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

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

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.