Resource Summary Report

Generated by RRID on Aug 19, 2026

pcDNA3-Clover

RRID:Addgene_40259
Type: Plasmid

Proper Citation

RRID:Addgene_40259

Plasmid Information

URL: http://www.addgene.org/40259

Proper Citation: RRID:Addgene_40259

Insert Name: Clover GFP

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: PMID:22961245

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5410; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Clover is the brightest green fluorescent protein (GFP) characterized to date, with robust performance in protein fusions. Also, it is useful as a FRET donor to mRuby2 in a FRET pair that offers bright fluorescence, dynamic range, and photostability while limiting emissions overlap.

Plasmid Name: pcDNA3-Clover

Record Creation Time: 20220422T222209+0000

Record Last Update: 20260815T081435+0000

Ratings and Alerts

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

No alerts have been found for pcDNA3-Clover.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 40 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Ishida M, et al. (2025) Traveling-wave chemotaxis of neutrophil-like HL-60 cells. Molecular biology of the cell, 36(2), ar17.

Borrelli MJ, et al. (2025) Spatiotemporal analysis of ratiometric biosensors in live multicellular spheroids using SPoRTS. Cell reports methods, 5(2), 100987.

Lukyanchikova V, et al. (2025) Chromatin landscape, transcriptomic and ChIP-seq profiling of Anopheles stephensi MSQ43 cell line. Scientific data, 12(1), 1566.

Ding MY, et al. (2024) Discovery of natural product derivative triptolidiol as a direct NLRP3 inhibitor by reducing K63-specific ubiquitination. British journal of pharmacology.

Gattuso G, et al. (2024) Methylation?sensitive restriction enzyme?droplet digital PCR assay for the one?step highly sensitive analysis of DNA methylation hotspots. International journal of molecular medicine, 53(5).

Jeong JH, et al. (2024) Development of super-infective ternary vector systems for enhancing the Agrobacterium-mediated plant transformation and genome editing efficiency. Horticulture research, 11(9), uhae187.

Gunaratne GS, et al. (2023) Progesterone receptor membrane component 1 facilitates Ca2+ signal amplification between endosomes and the endoplasmic reticulum. The Journal of biological chemistry, 299(12), 105378.

Wu L, et al. (2023) CD28-CAR-T cell activation through FYN kinase signaling rather than LCK enhances therapeutic performance. Cell reports. Medicine, 4(2), 100917.

Cryan LM, et al. (2022) Capillary morphogenesis gene 2 (CMG2) mediates growth factor-induced angiogenesis by regulating endothelial cell chemotaxis. Angiogenesis, 25(3), 397.

Leben R, et al. (2022) Two-Photon Excitation Spectra of Various Fluorescent Proteins within a Broad Excitation Range. International journal of molecular sciences, 23(21).

Fukushima Y, et al. (2022) cis interaction of CD153 with TCR/CD3 is crucial for the pathogenic activation of senescence-associated T cells. Cell reports, 40(12), 111373.

Karsai G, et al. (2021) Metabolism of HSAN1- and T2DM-associated 1-deoxy-sphingolipids inhibits the migration of fibroblasts. Journal of lipid research, 62, 100122.

Reuven N, et al. (2021) CRISPR Co-Editing Strategy for Scarless Homology-Directed Genome Editing. International journal of molecular sciences, 22(7).

Daly LA, et al. (2021) Oxygen-dependent changes in binding partners and post-translational modifications regulate the abundance and activity of HIF-1?/2?. Science signaling, 14(692).

Arizono M, et al. (2020) Structural basis of astrocytic Ca2+ signals at tripartite synapses. Nature communications, 11(1), 1906.

Hollos P, et al. (2020) Optogenetic Control of Spine-Head JNK Reveals a Role in Dendritic Spine Regression. eNeuro, 7(1).

Wang Y, et al. (2020) A pH-responsive silica-metal-organic framework hybrid nanoparticle for the delivery of hydrophilic drugs, nucleic acids, and CRISPR-Cas9 genome-editing machineries. Journal of controlled release : official journal of the Controlled Release Society, 324, 194.

Lischik CQ, et al. (2019) Enhanced in vivo-imaging in medaka by optimized anaesthesia, fluorescent protein selection and removal of pigmentation. PloS one, 14(3), e0212956.

Küey C, et al. (2019) Unintended perturbation of protein function using GFP nanobodies in human cells. Journal of cell science, 132(21).

Kochan JA, et al. (2019) Ultra-soft X-ray system for imaging the early cellular responses to X-ray induced DNA damage. Nucleic acids research, 47(17), e100.