

Resource Summary Report

Generated by [dkNET](#) on Aug 18, 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

Usage and Citation Metrics

We found 40 mentions in open access literature.

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

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 HSN1- 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 α /2 α . *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).

Trümper V, et al. (2019) Flow cytometry-based FRET identifies binding intensities in PPAR γ 1 protein-protein interactions in living cells. *Theranostics*, 9(19), 5444.