

Resource Summary Report

Generated by [NIF](#) on Sep 8, 2026

pPlatTET-gRNA2

RRID:Addgene_82559

Type: Plasmid

Proper Citation

RRID:Addgene_82559

Plasmid Information

URL: <http://www.addgene.org/82559>

Proper Citation: RRID:Addgene_82559

Insert Name: dCas9-5xPlat2AflD-P2A-scFvGCN4sfGFPTET1CD

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:27571369](#)

Vector Backbone Description: Vector Backbone:pCAG; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pPlatTET-gRNA2

Record Creation Time: 20220422T222535+0000

Record Last Update: 20260905T080214+0000

Ratings and Alerts

No rating or validation information has been found for pPlatTET-gRNA2.

No alerts have been found for pPlatTET-gRNA2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Nemoto A, et al. (2025) Rescue of imprinted genes by epigenome editing in human cellular models of Prader-Willi syndrome. *Nature communications*, 16(1), 9442.

Miyadai R, et al. (2025) Epigenome editing-mediated restoration of FBN1 expression by demethylation of CpG island shore in porcine fibroblasts. *Biochemistry and biophysics reports*, 42, 101973.

Grant-Bier J, et al. (2025) MSH2 is not required for either maintenance of DNA methylation or repeat contraction at the FMR1 locus in fragile X syndrome or the FXN locus in Friedreich's ataxia. *Epigenetics & chromatin*, 18(1), 24.

Müller L, et al. (2025) Sex-specific role of epigenetic modification of a leptin upstream enhancer in adipose tissue. *Clinical epigenetics*, 17(1), 21.

Shin Y, et al. (2024) MMP-9-dependent proteolysis of the histone H3 N-terminal tail: a critical epigenetic step in driving oncogenic transcription and colon tumorigenesis. *Molecular oncology*, 18(8), 2001.

Policarpi C, et al. (2024) Systematic epigenome editing captures the context-dependent instructive function of chromatin modifications. *Nature genetics*, 56(6), 1168.

Ohtani H, et al. (2024) Efficient activation of hundreds of LTR12C elements reveals cis-regulatory function determined by distinct epigenetic mechanisms. *Nucleic acids research*, 52(14), 8205.

Banerjee R, et al. (2024) Targeted DNA Methylation Editing Using an All-in-One System Establishes Paradoxical Activation of EBF3. *Cancers*, 16(5).

Han SH, et al. (2024) VIM-AS1, which is regulated by CpG methylation, cooperates with IGF2BP1 to inhibit tumor aggressiveness via EPHA3 degradation in hepatocellular carcinoma. *Experimental & molecular medicine*, 56(12), 2617.

Yang B, et al. (2023) Targeted DNA demethylation of the ZNF334 promoter inhibits colorectal cancer growth. *Cell death & disease*, 14(3), 210.

Alvizi L, et al. (2023) Neural crest E-cadherin loss drives cleft lip/palate by epigenetic modulation via pro-inflammatory gene-environment interaction. *Nature communications*, 14(1), 2868.

Hashimoto K, et al. (2023) In Vivo Tissue-Specific DNA Demethylation in Mouse Liver Through a Hydrodynamic Tail Vein Injection. *Methods in molecular biology (Clifton, N.J.)*, 2577, 269.

Yang L, et al. (2023) Functional characterization of age-dependent p16 epimutation reveals biological drivers and therapeutic targets for colorectal cancer. *Journal of experimental & clinical cancer research : CR*, 42(1), 113.

Silva R, et al. (2023) Unveiling the epigenomic mechanisms of acquired platinum-resistance in high-grade serous ovarian cancer. *International journal of cancer*, 153(1), 120.

Shin Y, et al. (2023) VprBP/DCAF1 triggers melanomagenic gene silencing through histone H2A phosphorylation. *Research square*.

Li Y, et al. (2022) Targeted demethylation of the SLC5A7 promotor inhibits colorectal cancer progression. *Clinical epigenetics*, 14(1), 92.

He XB, et al. (2022) Timing of MeCP2 Expression Determines Midbrain Dopamine Neuron Phenotype Specification. *Stem cells (Dayton, Ohio)*, 40(11), 1043.

Tang WWC, et al. (2022) Sequential enhancer state remodelling defines human germline competence and specification. *Nature cell biology*, 24(4), 448.

Alvizi L, et al. (2022) mir152 hypomethylation as a mechanism for non-syndromic cleft lip and palate. *Epigenetics*, 17(13), 2278.

Horii T, et al. (2022) Efficient generation of epigenetic disease model mice by epigenome editing using the piggyBac transposon system. *Epigenetics & chromatin*, 15(1), 40.