

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

FU-tetO-Gateway

RRID:Addgene_43914

Type: Plasmid

Proper Citation

RRID:Addgene_43914

Plasmid Information

URL: <http://www.addgene.org/43914>

Proper Citation: RRID:Addgene_43914

Bacterial Resistance: Chloramphenicol and Ampicillin

Defining Citation: [PMID:22174877](#)

Vector Backbone Description: Backbone Marker:Addgene Plasmid 19778; Backbone Size:8600; Vector Backbone:FU-tet-o-hOct4; Vector Types:Mammalian Expression, Lentiviral, Gateway Destination vector, Doxycycline inducible; Bacterial Resistance:Chloramphenicol and Ampicillin

Comments: To make a drug-inducible lentiviral vector that is compatible with Gateway recombination (Invitrogen), the depositing laboratory removed the OCT4 open reading frame from FU-tetO-hOCT4 (Addgene plasmid 19778) and replaced it with a Gateway cassette cloned from pEF-DEST51 (Invitrogen) to generate FU-tetO-Gateway. ORFs that lack stop codons can be cloned into this plasmid to express proteins with a C-terminal V5 epitope tag. Please note that Addgene's sequencing results identified a single nucleotide insert between bp# 2913/2914 and single nucleotide mismatches at bp# 3303 and 4652 when compared to the full plasmid sequence provided by the depositing laboratory. These differences do not affect the function of the plasmid.

Plasmid Name: FU-tetO-Gateway

Record Creation Time: 20220422T222227+0000

Record Last Update: 20260815T081511+0000

Ratings and Alerts

No rating or validation information has been found for FU-tetO-Gateway.

No alerts have been found for FU-tetO-Gateway.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Lynch AT, et al. (2025) HAND1 level controls the specification of multipotent cardiac and extraembryonic progenitors from human pluripotent stem cells. *The EMBO journal*, 44(9), 2541.

Fitz-James MH, et al. (2025) Interchromosomal contacts between regulatory regions trigger stable transgenerational epigenetic inheritance in *Drosophila*. *Molecular cell*, 85(4), 677.

Wu X, et al. (2024) Mutational profiling of SARS-CoV-2 papain-like protease reveals requirements for function, structure, and drug escape. *Nature communications*, 15(1), 6219.

Romero-Tejeda M, et al. (2023) A novel transcription factor combination for direct reprogramming to a spontaneously contracting human cardiomyocyte-like state. *Journal of molecular and cellular cardiology*, 182, 30.

Yu H, et al. (2019) GPR146 Deficiency Protects against Hypercholesterolemia and Atherosclerosis. *Cell*, 179(6), 1276.

Hwang SI, et al. (2019) Metastable Reprogramming State of Single Transcription Factor-Derived Induced Hepatocyte-Like Cells. *Stem cells international*, 2019, 6937257.

Ikeda KN, et al. (2019) Spatial proteomics reveal that the protein phosphatase PTP1B interacts with and may modify tyrosine phosphorylation of the rhomboid protease RHBDL4. *The Journal of biological chemistry*, 294(30), 11486.

Ward C, et al. (2018) Fine-Tuning Mybl2 Is Required for Proper Mesenchymal-to-Epithelial Transition during Somatic Reprogramming. *Cell reports*, 24(6), 1496.