

Resource Summary Report

Generated by [dkNET](#) on Sep 5, 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: 20260905T075643+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 [dkNET](#) .

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.