Resource Summary Report

Generated by RRID on Aug 25, 2026

OCT4-2A-eGFP-PGK-Puro

RRID:Addgene_31938
Type: Plasmid

Proper Citation

RRID:Addgene_31938

Plasmid Information

URL: http://www.addgene.org/31938

Proper Citation: RRID:Addgene_31938

Insert Name: OCT4

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:21738127

Vector Backbone Description: Backbone Marker:invitrogen; Backbone Size:8012; Vector Backbone:PCR2.1; Vector Types:targeting donor; Bacterial Resistance:Ampicillin

Comments: Please note that the Puromycin selection cassette in this plasmid has a R166H mutation. This mutation has been observed in other plasmids and should not have any affect on the function.

Plasmid Name: OCT4-2A-eGFP-PGK-Puro

Record Creation Time: 20220422T222138+0000

Record Last Update: 20260815T081337+0000

Ratings and Alerts

No rating or validation information has been found for OCT4-2A-eGFP-PGK-Puro.

No alerts have been found for OCT4-2A-eGFP-PGK-Puro.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Chen G, et al. (2026) Single-cell multi-omic analyses highlight the essential role of NKX2.2-CLEC16A/endosomal pathway for human pancreatic differentiation and function. Cell reports, 45(2), 116990.

Sirois CL, et al. (2024) CGG repeats in the human FMR1 gene regulate mRNA localization and cellular stress in developing neurons. Cell reports, 43(6), 114330.

Ueda Y, et al. (2023) Defining developmental trajectories of prosensory cells in human inner ear organoids at single-cell resolution. Development (Cambridge, England), 150(12).

Repina NA, et al. (2023) Optogenetic control of Wnt signaling models cell-intrinsic embryogenic patterning using 2D human pluripotent stem cell culture. Development (Cambridge, England), 150(14).

Moore ST, et al. (2023) Generating high-fidelity cochlear organoids from human pluripotent stem cells. Cell stem cell, 30(7), 950.

Chang Y, et al. (2022) Chemically-defined generation of human hemogenic endothelium and definitive hematopoietic progenitor cells. Biomaterials, 285, 121569.

Vojnits K, et al. (2022) Developing CRISPR/Cas9-Mediated Fluorescent Reporter Human Pluripotent Stem-Cell Lines for High-Content Screening. Molecules (Basel, Switzerland), 27(8).

Ma X, et al. (2022) N6-methyladenosine modification-mediated mRNA metabolism is essential for human pancreatic lineage specification and islet organogenesis. Nature communications, 13(1), 4148.

Nie J, et al. (2022) CHD7 regulates otic lineage specification and hair cell differentiation in human inner ear organoids. Nature communications, 13(1), 7053.

Lee H, et al. (2021) Multi-omic analysis of selectively vulnerable motor neuron subtypes implicates altered lipid metabolism in ALS. Nature neuroscience, 24(12), 1673.

Alexeeva V, et al. (2020) A human H1-HBB11-GFP reporter embryonic stem cell line (WAe001-A-2) generated using TALEN-based genome editing. Stem cell research, 45, 101837.

Li M, et al. (2019) One-Step Generation of Seamless Luciferase Gene Knockin Using CRISPR/Cas9 Genome Editing in Human Pluripotent Stem Cells. Methods in molecular biology (Clifton, N.J.), 1942, 61.

Bao X, et al. (2019) Gene Editing to Generate Versatile Human Pluripotent Stem Cell Reporter Lines for Analysis of Differentiation and Lineage Tracing. Stem cells (Dayton, Ohio), 37(12), 1556.

Randolph LN, et al. (2019) Sex-dependent VEGF expression underlies variations in human pluripotent stem cell to endothelial progenitor differentiation. Scientific reports, 9(1), 16696.

Zhu W, et al. (2019) Precisely controlling endogenous protein dosage in hPSCs and derivatives to model FOXG1 syndrome. Nature communications, 10(1), 928.

Cai L, et al. (2018) A Universal Approach to Correct Various HBB Gene Mutations in Human Stem Cells for Gene Therapy of Beta-Thalassemia and Sickle Cell Disease. Stem cells translational medicine, 7(1), 87.

Mukherjee S, et al. (2018) Derivation and characterization of a UCP1 reporter human ES cell line. Stem cell research, 30, 12.

Klann TS, et al. (2018) Screening Regulatory Element Function with CRISPR/Cas9-based Epigenome Editing. Methods in molecular biology (Clifton, N.J.), 1767, 447.

Chen Z, et al. (2018) Genetic Engineering of Human Embryonic Stem Cells for Precise Cell Fate Tracing during Human Lineage Development. Stem cell reports, 11(5), 1257.

Ma X, et al. (2018) Small molecules promote CRISPR-Cpf1-mediated genome editing in human pluripotent stem cells. Nature communications, 9(1), 1303.