

Resource Summary Report

Generated by [NIF](#) on Jul 29, 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: 20260725T074547+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

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

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).

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

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.

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.

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.

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.

Zhu W, et al. (2019) Precisely controlling endogenous protein dosage in hPSCs and derivatives to model FOXP1 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.

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

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

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.

Li M, et al. (2017) Establishment of Reporter Lines for Detecting Fragile X Mental Retardation (FMR1) Gene Reactivation in Human Neural Cells. *Stem cells* (Dayton, Ohio), 35(1), 158.