Resource Summary Report

Generated by NIF on Aug 3, 2026

pGL3-U6-sgRNA-PGK-puromycin

RRID:Addgene_51133
Type: Plasmid

Proper Citation

RRID:Addgene_51133

Plasmid Information

URL: http://www.addgene.org/51133

Proper Citation: RRID:Addgene_51133

Bacterial Resistance: Ampicillin

Defining Citation: PMID:24584192

Vector Backbone Description: Backbone Marker:Promega; Vector Backbone:pGL3-Basic; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Plasmid Name: pGL3-U6-sgRNA-PGK-puromycin

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260801T081420+0000

Ratings and Alerts

No rating or validation information has been found for pGL3-U6-sgRNA-PGK-puromycin.

No alerts have been found for pGL3-U6-sgRNA-PGK-puromycin.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 101 mentions in open access literature.

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

Zhou Y, et al. (2025) The RNA-binding protein RRP1 brakes macrophage one-carbon metabolism to suppress autoinflammation. Nature communications, 16(1), 6880.

Croce KR, et al. (2025) A rare genetic variant confers resistance to neurodegeneration across multiple neurological disorders by augmenting selective autophagy. Neuron.

Chang CC, et al. (2025) Y12C mutation disrupts IMPDH cytoophidia and alters cancer metabolism. The FEBS journal, 292(14), 3676.

Zhang H, et al. (2025) Adenine base editing rescues disrupted BCKDH function and reduces BCAAs toxic accumulation in maple syrup urine disease patient iPSC-hepatic organoids. Stem cell research & therapy, 16(1), 512.

Su D, et al. (2025) Identification of a distal enhancer of Ucp1 essential for thermogenesis and mitochondrial function in brown fat. Communications biology, 8(1), 31.

Abewe H, et al. (2025) Estrogen-induced chromatin looping changes identify a subset of functional regulatory elements. Genome research, 35(3), 393.

Li H, et al. (2025) Effectiveness of Multivitamins vs Folic Acid on Prevention of Neural Tube Defects in Mouse Genetic Models and Human Organoids. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e13609.

Zhang H, et al. (2024) Self-delivering, chemically modified CRISPR RNAs for AAV co-delivery and genome editing in vivo. Nucleic acids research, 52(2), 977.

Abewe H, et al. (2024) Estrogen-induced chromatin looping changes identify a subset of functional regulatory elements. bioRxiv : the preprint server for biology.

Zhang J, et al. (2024) m5C methylated lncRncr3-MeCP2 interaction restricts miR124a-initiated neurogenesis. Nature communications, 15(1), 5136.

Wang Y, et al. (2024) Co-delivery of Cas9 mRNA and guide RNAs for editing of LGMN gene represses breast cancer cell metastasis. Scientific reports, 14(1), 8095.

Fedeles BI, et al. (2024) A synthetic agent ameliorates polycystic kidney disease by promoting apoptosis of cystic cells through increased oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 121(4), e2317344121.

Liu M, et al. (2024) Kidney organoid models reveal cilium-autophagy metabolic axis as a therapeutic target for PKD both in vitro and in vivo. Cell stem cell, 31(1), 52.

Sun Y, et al. (2024) CRISPR/dCas9-Mediated DNA Methylation Editing on emx2 in Chinese Tongue Sole (Cynoglossus semilaevis) Testis Cells. International journal of molecular sciences, 25(14).

Wu X, et al. (2024) The RhoB p.S73F mutation leads to cerebral palsy through dysregulation of lipid homeostasis. EMBO molecular medicine, 16(9), 2002.

Alfano L, et al. (2024) CDK9-55 guides the anaphase-promoting complex/cyclosome (APC/C) in choosing the DNA repair pathway choice. Oncogene.

Zhang M, et al. (2024) USP20 deubiquitinates and stabilizes the reticulophagy receptor RETREG1/FAM134B to drive reticulophagy. Autophagy, 20(8), 1780.

Peng M, et al. (2024) The IMPDH cytoophidium couples metabolism and fetal development in mice. Cellular and molecular life sciences : CMLS, 81(1), 210.

Rahman MM, et al. (2024) dCas9-HDAC8-EGFP fusion enables epigenetic editing of breast cancer cells by H3K9 deacetylation. European journal of cell biology, 103(4), 151463.

Zhou S, et al. (2023) Generation of sheep with defined FecBB and TBXT mutations and porcine blastocysts with KCNJ5G151R/+ mutation using prime editing. BMC genomics, 24(1), 313.