

Resource Summary Report

Generated by [NIF](#) on Sep 1, 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: 20260829T080637+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 104 mentions in open access literature.

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

Fan T, et al. (2026) PIWIL1 activates the R2TP-TELO2-mTORC1 axis independently of piRNA to promote TOP mRNA translation in gastric cancer. *Oncogene*, 45(23), 2183.

Nocente MC, et al. (2026) Poising and connectivity of emergent human developmental enhancers in the transition from naive to primed pluripotency. *Cell reports*, 45(6), 117402.

Lu T, et al. (2026) PUMILIO proteins maintain lineage balance via post-transcriptional repression of germline fate and promotion of somatic differentiation. *Cell reports*, 45(7), 117682.

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*.

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.

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

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

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.

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.

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.

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

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).

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.

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.

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.

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.

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