

Resource Summary Report

Generated by [NIF](#) on Aug 2, 2026

lentiGuide-Puro

RRID:Addgene_52963

Type: Plasmid

Proper Citation

RRID:Addgene_52963

Plasmid Information

URL: <http://www.addgene.org/52963>

Proper Citation: RRID:Addgene_52963

Insert Name: S. pyogenes sgRNA cassette

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25075903](#)

Vector Backbone Description: Vector Backbone:Custom; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: Note that this plasmid does NOT contain Cas9. It should be used in conjunction with lentiCas9-Blast (Addgene #52962) or otherwise with cell lines already expressing Cas9. Special note from the Zhang lab: We are constantly improving our CRISPR reagents. Please check <https://zlab.bio/> for the most up-to-date information.

Plasmid Name: lentiGuide-Puro

Record Creation Time: 20220422T222310+0000

Record Last Update: 20260801T081439+0000

Ratings and Alerts

No rating or validation information has been found for lentiGuide-Puro.

No alerts have been found for lentiGuide-Puro.

Data and Source Information

Usage and Citation Metrics

We found 824 mentions in open access literature.

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

Neve B, et al. (2026) Long non-coding RNA UCA1 modulates SMARCA2-containing SWI/SNF chromatin remodeling complexes in human colorectal cancer. *iScience*, 29(1), 114283.

Lewis AC, et al. (2026) Inhibition of heme biosynthesis triggers cuproptosis in acute myeloid leukemia. *Cell*, 189(1), 215.

Song J, et al. (2025) Norovirus co-opts NINJ1 for selective protein secretion. *Science advances*, 11(9), eadu7985.

Mu H, et al. (2025) Systematic optimization of prime editing for enhanced efficiency and versatility in genome engineering across diverse cell types. *Frontiers in cell and developmental biology*, 13, 1589034.

Ren Y, et al. (2025) SSRP1/SLC3A2 Axis in Arginine Transport: A New Target for Overcoming Immune Evasion and Tumor Progression in Peripheral T-Cell Lymphoma. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(21), e2415698.

Tian Y, et al. (2025) Epigenomic analysis identifies DTP subpopulation using HOPX to develop targeted therapy resistance in lung adenocarcinoma. *iScience*, 28(5), 112387.

Zirman A, et al. (2025) Pooled CRISPR screens identifies key regulators of bovine stem cell expansion for cultured meat. *Communications biology*, 8(1), 1313.

Bayraktar E, et al. (2025) Epigenetic modulation of BARD1 to enhance anti-VEGF therapy. *Cell reports. Medicine*, 6(9), 102329.

Cattle MA, et al. (2025) An enhanced Eco1 retron editor enables precision genome engineering in human cells without double-strand breaks. *Nucleic acids research*, 53(14).

Teng H, et al. (2025) In vivo CRISPR activation screen identifies acyl-CoA-binding protein as a driver of bone metastasis. *Science translational medicine*, 17(799), eado7225.

Dayanc B, et al. (2025) Integrative multi-omics identifies AP-1 transcription factor as a targetable mediator of acquired osimertinib resistance in non-small cell lung cancer. *Cell death & disease*, 16(1), 414.

Dhungel BP, et al. (2025) An alternate receptor for adeno-associated viruses. *Cell*, 188(18), 4924.

Fu Y, et al. (2025) Single cell and spatial alternative splicing analysis with Nanopore long read sequencing. *Nature communications*, 16(1), 6654.

Gabel AM, et al. (2025) Muscleblind-like proteins are novel modulators of the tumor-immune microenvironment. PLoS one, 20(4), e0321148.

Burton EM, et al. (2025) Epstein-Barr virus latent membrane protein 1 subverts IMPDH pathways to drive B-cell oncometabolism. PLoS pathogens, 21(5), e1013092.

Wu J, et al. (2025) Bi-handed assembly chaperones regulate protein complex assembly through an intramolecular handover mechanism. Science advances, 11(37), eadw9158.

Ozcan SC, et al. (2025) RESTRICT-seq enables time-gated CRISPR screens and uncovers novel epigenetic dependencies of SCC resistance. bioRxiv : the preprint server for biology.

Seker-Polat F, et al. (2025) Druggable genome CRISPR screening identifies the KEAP1/NRF2 axis as a mediator of PD-L1 expression. Communications biology, 8(1), 1610.

Loureiro JP, et al. (2025) Recognition of MR1-antigen complexes by TCR V α 9V β 2. Frontiers in immunology, 16, 1519128.

O'Driscoll EE, et al. (2025) CRISPR screen reveals modifiers of rAAV production including known rAAV infection genes playing an unexpected role in vector production. Molecular therapy. Methods & clinical development, 33(1), 101408.