Resource Summary Report

Generated by NIF on Aug 1, 2026

Human genome-wide lentiviral CRISPR gRNA library version 1

RRID:Addgene_67989
Type: Plasmid

Proper Citation

RRID:Addgene_67989

Plasmid Information

URL: http://www.addgene.org/67989

Proper Citation: RRID:Addgene_67989

Insert Name: U6gRNA cassette, PGKpuro2ABFP cassette, WPRE

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:27760321

Vector Backbone Description: Backbone Size:5783; Vector Backbone:pKLV2 lentiviral vector; Vector Types:Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: This library consists of 90,709 guide sequences targeting a total of 18,010 human genes. For more information, please see the associated article. The library is supplied as 50 ul of DNA at 20 ng/ul. The backbone of this library is Plasmid 67974: pKLV2-U6gRNA5(BbsI)-PGKpuro2ABFP-W

Plasmid Name: Human genome-wide lentiviral CRISPR gRNA library version 1

Relevant Mutation: Deleted BbsI site within WPRE

Record Creation Time: 20220422T222424+0000

Record Last Update: 20260801T081657+0000

Ratings and Alerts

No rating or validation information has been found for Human genome-wide lentiviral CRISPR gRNA library version 1.

No alerts have been found for Human genome-wide lentiviral CRISPR gRNA library version 1.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Cutano V, et al. (2025) The interplay between FOXO3 and FOXM1 influences sensitivity to AKT inhibition in PIK3CA and PIK3CA/PTEN altered estrogen receptor positive breast cancer. NPJ breast cancer, 11(1), 36.

Otero-Rosales M, et al. (2025) CDK7-targeted therapy effectively disrupts cell cycle progression and oncogenic signaling in head and neck cancer. Signal transduction and targeted therapy, 10(1), 363.

Yee PS, et al. (2025) Interferon-Inducible ADAR1 p150 Is Essential for the Survival of Oral Squamous Cell Carcinoma. Molecular carcinogenesis, 64(6), 1066.

Demetriou P, et al. (2025) CD2 costimulation strength: A key regulator of T cell function and anti-tumor immunity that is epigenetically regulated. iScience, 28(12), 113977.

Stewart ML, et al. (2025) CDK4/6 inhibition overcomes venetoclax resistance mechanisms with enhanced combination activity in acute myeloid leukemia. Cell reports. Medicine, 102526.

Iannuzzi RM, et al. (2024) Benchmark Software and Data for Evaluating CRISPR-Cas9 Experimental Pipelines Through the Assessment of a Calibration Screen. The CRISPR journal, 7(6), 355.

Chan CWF, et al. (2024) High-throughput screening of genetic and cellular drivers of syncytium formation induced by the spike protein of SARS-CoV-2. Nature biomedical engineering, 8(3), 291.

Sharma S, et al. (2024) A high-throughput two-cell assay for interrogating inhibitory signaling pathways in T cells. Life science alliance, 7(3).

Zhang L, et al. (2024) SOD1 is a synthetic lethal target in PPM1D-mutant leukemia cells. bioRxiv : the preprint server for biology.

Sakai M, et al. (2024) Genome-scale CRISPR-Cas9 screen identifies host factors as potential therapeutic targets for SARS-CoV-2 infection. iScience, 27(8), 110475.

Modak RV, et al. (2024) Targeting CCL2/CCR2 Signaling Overcomes MEK Inhibitor Resistance in Acute Myeloid Leukemia. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(10), 2245.

Osia B, et al. (2023) RAD52 and ERCC6L/PICH have a compensatory relationship for genome stability in mitosis. bioRxiv : the preprint server for biology.

Lalonde ME, et al. (2023) Genome-wide CRISPR screens identify ferroptosis as a novel therapeutic vulnerability in acute lymphoblastic leukemia. Haematologica, 108(2), 382.

Eide CA, et al. (2023) Clinical Correlates of Venetoclax-Based Combination Sensitivities to Augment Acute Myeloid Leukemia Therapy. Blood cancer discovery, 4(6), 452.

Zelceski A, et al. (2023) MND1 and PSMC3IP control PARP inhibitor sensitivity in mitotic cells. Cell reports, 42(5), 112484.

Mamedov MR, et al. (2023) CRISPR screens decode cancer cell pathways that trigger ?? T cell detection. Nature, 621(7977), 188.

Damnernsawad A, et al. (2022) Genome-wide CRISPR screen identifies regulators of MAPK and MTOR pathways mediating sorafenib resistance in acute myeloid leukemia. Haematologica, 107(1), 77.

Shi X, et al. (2021) Nuclear NAD+ homeostasis governed by NMNAT1 prevents apoptosis of acute myeloid leukemia stem cells. Science advances, 7(30).

Supper E, et al. (2021) Cut-like homeobox 1 (CUX1) tumor suppressor gene haploinsufficiency induces apoptosis evasion to sustain myeloid leukemia. Nature communications, 12(1), 2482.

Romine KA, et al. (2021) Monocytic differentiation and AHR signaling as Primary Nodes of BET Inhibitor Response in Acute Myeloid Leukemia. Blood cancer discovery, 2(5), 518.