

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

pLKO5.sgRNA.EFS.tRFP657

RRID:Addgene_57824

Type: Plasmid

Proper Citation

RRID:Addgene_57824

Plasmid Information

URL: <http://www.addgene.org/57824>

Proper Citation: RRID:Addgene_57824

Insert Name: sgRNA

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24952903](#)

Vector Backbone Description: Vector Backbone:pLKO.005; Vector Types:Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: Use BsmBI sites for sgRNA cloning. Note that this plasmid does NOT contain the 1.9kb stuffer from the pLKO.005 vector backbone.

Plasmid Name: pLKO5.sgRNA.EFS.tRFP657

Record Creation Time: 20220422T222335+0000

Record Last Update: 20260815T081709+0000

Ratings and Alerts

No rating or validation information has been found for pLKO5.sgRNA.EFS.tRFP657.

No alerts have been found for pLKO5.sgRNA.EFS.tRFP657.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Asada S, et al. (2026) Disruption of microhomology-mediated end joining in Ewing sarcoma. *Molecular cell*.

Duan S, et al. (2025) WNK1 signalling regulates amino acid transport and mTORC1 activity to sustain acute myeloid leukaemia growth. *Nature communications*, 16(1), 4920.

Zhang W, et al. (2024) Modeling and therapeutic targeting of t(8;21) AML with/without TP53 deficiency. *International journal of hematology*, 120(2), 186.

Chang YH, et al. (2024) SETDB1 suppresses NK cell-mediated immunosurveillance in acute myeloid leukemia with granulo-monocytic differentiation. *Cell reports*, 43(8), 114536.

Liu X, et al. (2023) IMPDH inhibition activates TLR-VCAM1 pathway and suppresses the development of MLL-fusion leukemia. *EMBO molecular medicine*, 15(1), e15631.

Guerrero-Santoro J, et al. (2023) The lipase cofactor CGI58 controls placental lipolysis. *JCI insight*, 8(10).

Xu H, et al. (2023) A lncRNA identifies lrf8 enhancer element in negative feedback control of dendritic cell differentiation. *eLife*, 12.

Liao CG, et al. (2022) Active demethylation upregulates CD147 expression promoting non-small cell lung cancer invasion and metastasis. *Oncogene*, 41(12), 1780.

Guo Z, et al. (2022) Defining pervasive transcription units using chromatin RNA-sequencing data. *STAR protocols*, 3(2), 101442.

Lu X, et al. (2022) HOXB13 suppresses de novo lipogenesis through HDAC3-mediated epigenetic reprogramming in prostate cancer. *Nature genetics*, 54(5), 670.

Luo H, et al. (2022) HOTTIP-dependent R-loop formation regulates CTCF boundary activity and TAD integrity in leukemia. *Molecular cell*, 82(4), 833.

Liu X, et al. (2022) The PAF1 complex promotes 3' processing of pervasive transcripts. *Cell reports*, 38(11), 110519.

Singh AP, et al. (2022) A coordinated function of lncRNA HOTTIP and miRNA-196b underpinning leukemogenesis by targeting FAS signaling. *Oncogene*, 41(5), 718.

Hoshii T, et al. (2022) SETD1A regulates transcriptional pause release of heme biosynthesis genes in leukemia. *Cell reports*, 41(9), 111727.

Smith J, et al. (2021) Locus-Specific DNA Methylation Editing in Melanoma Cell Lines Using a CRISPR-Based System. *Cancers*, 13(21).

Inoue D, et al. (2021) Minor intron retention drives clonal hematopoietic disorders and diverse cancer predisposition. *Nature genetics*, 53(5), 707.

Sun WY, et al. (2021) Phospholipase iPLA2 γ averts ferroptosis by eliminating a redox lipid death signal. *Nature chemical biology*, 17(4), 465.

Cabal-Hierro L, et al. (2020) Chromatin accessibility promotes hematopoietic and leukemia stem cell activity. *Nature communications*, 11(1), 1406.

He BL, et al. (2020) Follistatin is a novel therapeutic target and biomarker in FLT3/ITD acute myeloid leukemia. *EMBO molecular medicine*, 12(4), e10895.

Mei Y, et al. (2020) Diaphanous-related formin mDia2 regulates beta2 integrins to control hematopoietic stem and progenitor cell engraftment. *Nature communications*, 11(1), 3172.