

Resource Summary Report

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

[pLKO5.sgRNA.EFS.tRFP](#)

RRID:Addgene_57823

Type: Plasmid

Proper Citation

RRID:Addgene_57823

Plasmid Information

URL: <http://www.addgene.org/57823>

Proper Citation: RRID:Addgene_57823

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.tRFP

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.tRFP.

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 52 mentions in open access literature.

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

Jiang K, et al. (2026) The Histone Modifier KANSL2 Is an Actionable Biomarker in Multiple Myeloma. *Molecular cancer therapeutics*, 25(6), 1016.

Milovanovi? D, et al. (2026) Tissue-specific restriction of transposon-derived regulatory elements safeguards cell-type identity. *Cell reports*, 45(1), 116817.

Gutierrez C, et al. (2026) Mutant ribosomal protein RPS15 drives B cell malignancy through oxidative stress and genomic instability. *Nature communications*, 17(1).

Sharma G, et al. (2025) IGF2BP3 redirects glycolytic flux to promote one-carbon metabolism and RNA methylation. *Cell reports*, 116330.

Johnson CS, et al. (2025) Targeted Deletion of Cxcl1 in MSCs Regulates Osteogenesis and Suppresses Bone-Metastatic Prostate Cancer. *Molecular cancer research : MCR*, 23(8), 739.

Tai SL, et al. (2025) Group 3 innate lymphoid cell-derived CSF2 tunes homeostasis of tissue macrophages and neutrophils. *Mucosal immunology*, 18(6), 1450.

Boutet M, et al. (2025) Mutations in MLL3 promote breast cancer progression via HIF1?-dependent intratumoral recruitment and differentiation of regulatory T cells. *Immunity*, 58(8), 2035.

Rodríguez-Sánchez A, et al. (2025) SAMHD1 dysfunction impairs DNA damage response and increases sensitivity to PARP inhibition in chronic lymphocytic leukemia. *Scientific reports*, 15(1), 10446.

Ito Y, et al. (2024) Epigenetic profiles guide improved CRISPR/Cas9-mediated gene knockout in human T cells. *Nucleic acids research*, 52(1), 141.

Horitani K, et al. (2024) Disruption of the Uty epigenetic regulator locus in hematopoietic cells phenocopies the profibrotic attributes of Y chromosome loss in heart failure. *Nature cardiovascular research*, 3(3), 343.

Montero JJ, et al. (2024) Genome-scale pan-cancer interrogation of lncRNA dependencies using CasRx. *Nature methods*, 21(4), 584.

Wang B, et al. (2024) Phosphoproteomic Profiling Reveals mTOR Signaling in Sustaining Macrophage Phagocytosis of Cancer Cells. *Cancers*, 16(24).

Xu Y, et al. (2024) ZNF397 Deficiency Triggers TET2-Driven Lineage Plasticity and AR-Targeted Therapy Resistance in Prostate Cancer. *Cancer discovery*, 14(8), 1496.

Prasad K, et al. (2024) Precise correction of a spectrum of ?-thalassemia mutations in coding and non-coding regions by base editors. *Molecular therapy. Nucleic acids*, 35(2), 102205.

Xu H, et al. (2023) A lncRNA identifies Irf8 enhancer element in negative feedback control of dendritic cell differentiation. *eLife*, 12.

Sharma G, et al. (2023) RNA binding protein IGF2BP1 synergizes with ETV6-RUNX1 to drive oncogenic signaling in B-cell Acute Lymphoblastic Leukemia. *Journal of experimental & clinical cancer research : CR*, 42(1), 231.

Rosspopoff O, et al. (2023) Species-specific regulation of XIST by the JPX/FTX orthologs. *Nucleic acids research*, 51(5), 2177.

Ling VY, et al. (2023) Targeting cell cycle and apoptosis to overcome chemotherapy resistance in acute myeloid leukemia. *Leukemia*, 37(1), 143.

Liu X, et al. (2023) Aberrant accumulation of Kras-dependent pervasive transcripts during tumor progression renders cancer cells dependent on PAF1 expression. *Cell reports*, 42(8), 112979.

Battistello E, et al. (2023) Stepwise activities of mSWI/SNF family chromatin remodeling complexes direct T cell activation and exhaustion. *Molecular cell*, 83(8), 1216.