

Resource Summary Report

Generated by [RRID](#) on Sep 3, 2026

lenti-EF1a-dCas9-KRAB-Puro

RRID:Addgene_99372

Type: Plasmid

Proper Citation

RRID:Addgene_99372

Plasmid Information

URL: <http://www.addgene.org/99372>

Proper Citation: RRID:Addgene_99372

Insert Name: dCas9-KRAB-T2A-Puro

Organism: synthetic; S. pyogenes

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:28757163](#)

Vector Backbone Description: Backbone Size:9192; Vector Backbone:pLenti; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: dCas9 sequence is from Addgene plasmid #61425 (generously shared by Feng Zhang lab). "Genome-scale transcriptional activation by an engineered CRISPR-Cas9 complex.", Konermann et al.. 2014 KRAB sequence is from Addgene plasmid #50919 (generously shared by Rene Maehr, Scot Wolfe lab). "Cas9 effector-mediated regulation of transcription and differentiation in human pluripotent stem cells.", Kearns et al. 2014

Plasmid Name: lenti-EF1a-dCas9-KRAB-Puro

Record Creation Time: 20220422T222634+0000

Record Last Update: 20260902T050549+0000

Ratings and Alerts

No rating or validation information has been found for lenti-EF1a-dCas9-KRAB-Puro.

No alerts have been found for lenti-EF1a-dCas9-KRAB-Puro.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Suryavanshi S, et al. (2026) Allelic Variation at 9p21.3 Orchestrates Widespread RNA Splicing Shifts Governing Vascular Smooth Muscle Cell Plasticity. bioRxiv : the preprint server for biology.

Zhao Z, et al. (2025) Sick cell disease induces chromatin introversion and ferroptosis in CD8+ T cells to suppress anti-tumor immunity. Immunity, 58(6), 1484.

Nakano Y, et al. (2025) Epigenetic Regulation of G6PD Drives Metabolic Reprogramming in Intrahepatic Cholangiocarcinoma. Cancer science, 116(12), 3352.

Ray-Jones H, et al. (2025) Genetic coupling of enhancer activity and connectivity in gene expression control. Nature communications, 16(1), 970.

Zhang T, et al. (2024) Germline cis variant determines epigenetic regulation of the anti-cancer drug metabolism gene dihydropyrimidine dehydrogenase (DPYD). eLife, 13.

Spisak S, et al. (2023) A biallelic multiple nucleotide length polymorphism explains functional causality at 5p15.33 prostate cancer risk locus. Nature communications, 14(1), 5118.

Wang JH, et al. (2023) Development of a CRISPRi Human Retinal Pigmented Epithelium Model for Functional Study of Age-Related Macular Degeneration Genes. International journal of molecular sciences, 24(4).

Islam Z, et al. (2023) Active enhancers strengthen insulation by RNA-mediated CTCF binding at chromatin domain boundaries. Genome research, 33(1), 1.

Sperber HS, et al. (2023) The hypoxia-regulated ectonucleotidase CD73 is a host determinant of HIV latency. Cell reports, 42(11), 113285.

Zhang J, et al. (2022) Transforming growth factor- β challenge alters the N-, O-, and glycosphingolipid glycomes in PaTu-S pancreatic adenocarcinoma cells. The Journal of biological chemistry, 298(3), 101717.

Takahashi T, et al. (2022) LINE-1 activation in the cerebellum drives ataxia. Neuron, 110(20), 3278.

Wulansari N, et al. (2021) Neurodevelopmental defects and neurodegenerative phenotypes in human brain organoids carrying Parkinson's disease-linked DNAJC6 mutations. Science advances, 7(8).

Wang M, et al. (2021) Transformative Network Modeling of Multi-omics Data Reveals Detailed Circuits, Key Regulators, and Potential Therapeutics for Alzheimer's Disease. *Neuron*, 109(2), 257.

Li A, et al. (2021) Using the dCas9-KRAB system to repress gene expression in hiPSC-derived NGN2 neurons. *STAR protocols*, 2(2), 100580.

Walavalkar K, et al. (2020) A rare variant of African ancestry activates 8q24 lncRNA hub by modulating cancer associated enhancer. *Nature communications*, 11(1), 3598.

Omerzu M, et al. (2019) Three-dimensional analysis of single molecule FISH in human colon organoids. *Biology open*, 8(8).