

Resource Summary Report

Generated by [dkNET](#) on Jul 30, 2026

dCas9-KRAB-MeCP2

RRID:Addgene_110821

Type: Plasmid

Proper Citation

RRID:Addgene_110821

Plasmid Information

URL: <http://www.addgene.org/110821>

Proper Citation: RRID:Addgene_110821

Insert Name: dCas9-KRAB-MeCP2

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:30013045](#)

Vector Backbone Description: Vector Backbone:pcDNA3.3_TOPO; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: dCas9-KRAB-MeCP2

Relevant Mutation: Cas9 mutations to make dCas9=D10A+D839A+H840A+N863A

Record Creation Time: 20220422T221539+0000

Record Last Update: 20260725T073502+0000

Ratings and Alerts

No rating or validation information has been found for dCas9-KRAB-MeCP2.

No alerts have been found for dCas9-KRAB-MeCP2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 38 mentions in open access literature.

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

Wang C, et al. (2025) Viral oncogene EBNA1 regulates YY1 DNA binding and alters host 3D genome organization. EMBO reports, 26(3), 810.

Gu S, et al. (2025) Elucidating the genetic mechanisms governing cytosine base editing outcomes through CRISPRi screens. Nature communications, 16(1), 4685.

Franklin JM, et al. (2025) Human Satellite 3 DNA encodes megabase-scale transcription factor binding platforms. bioRxiv : the preprint server for biology.

Pierson Smela M, et al. (2025) Rapid human oogonia-like cell specification via transcription factor-directed differentiation. EMBO reports, 26(4), 1114.

Rallabandi HR, et al. (2025) Defining Mechanistic Links Between the Non-Coding Variant rs17673553 in CLEC16A and Lupus Susceptibility. International journal of molecular sciences, 26(1).

Hu M, et al. (2025) Druggable genome CRISPRi screen in 3D hydrogels reveals regulators of cortactin-driven actin remodeling in invading glioblastoma cells. bioRxiv : the preprint server for biology.

Borck PC, et al. (2025) SKI complex loss renders 9p21.3-deleted or MSI-H cancers dependent on PELO. Nature, 638(8052), 1104.

Gupta S, et al. (2024) Miniaturized Fab' imaging probe derived from a clinical antibody: Characterization and imaging in CRISPRi-attenuated mammary tumor models. iScience, 27(8), 110102.

Leuzzi G, et al. (2024) SMARCA1 is a dual regulator of innate immune signaling and PD-L1 expression that promotes tumor immune evasion. Cell, 187(4), 861.

Feng Y, et al. (2024) Integrative functional genomic analyses identify genetic variants influencing skin pigmentation in Africans. Nature genetics, 56(2), 258.

Gan S, et al. (2024) Distinct tumor architectures and microenvironments for the initiation of breast cancer metastasis in the brain. Cancer cell, 42(10), 1693.

Patty B, et al. (2024) H3.3K122A results in a neomorphic phenotype in mouse embryonic stem cells. Research square.

Farrell K, et al. (2024) Phosphorylation of RPT6 Controls Its Ability to Bind DNA and Regulate Gene Expression in the Hippocampus of Male Rats during Memory Formation. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(4).

Liu SX, et al. (2023) Super-enhancer driven SOX2 promotes tumor formation by chromatin re-organization in nasopharyngeal carcinoma. EBioMedicine, 98, 104870.

Sun Z, et al. (2023) α 1 integrin signaling governs necroptosis via the chromatin-remodeling factor CHD4. *Cell reports*, 42(11), 113322.

Yu JH, et al. (2023) Identification of the primary ciliary proteins IFT38 and IFT144 to enhance serum-mediated YAP activation and cell proliferation. *Biochemical and biophysical research communications*, 681, 186.

Liu J, et al. (2023) CTCF mediates CD8⁺ effector differentiation through dynamic redistribution and genomic reorganization. *The Journal of experimental medicine*, 220(4).

Czarnek M, et al. (2023) Construction of a Set of Novel Transposon Vectors for Efficient Silencing of Protein and lncRNA Genes via CRISPR Interference. *Molecular biotechnology*, 65(10), 1598.

Gan S, et al. (2023) Distinct tumor architectures for metastatic colonization of the brain. *bioRxiv : the preprint server for biology*.

Brookes E, et al. (2023) A novel intergenic enhancer that regulates Bdnf expression in developing cortical neurons. *iScience*, 26(1), 105695.