

Resource Summary Report

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

pAC154-dual-dCas9VP160-sgExpression

RRID:Addgene_48240

Type: Plasmid

Proper Citation

RRID:Addgene_48240

Plasmid Information

URL: <http://www.addgene.org/48240>

Proper Citation: RRID:Addgene_48240

Insert Name: dCas9

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23979020](#)

Vector Backbone Description: Vector Backbone:pX335 (Addgene #42335); Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: Clone sgRNA spacer into BbsI site. Sequence using LKO5' primer: GACTATCATATGCTTACCGT For more information including protocols and updates, please go to <http://www.crispr-on.org>

Plasmid Name: pAC154-dual-dCas9VP160-sgExpression

Relevant Mutation: D10A H840A

Record Creation Time: 20220422T222248+0000

Record Last Update: 20260815T081548+0000

Ratings and Alerts

No rating or validation information has been found for pAC154-dual-dCas9VP160-sgExpression.

No alerts have been found for pAC154-dual-dCas9VP160-sgExpression.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

Park SB, et al. (2026) Human pluripotent stem cell engineering with CRISPR-Cas9 for Parkinson's disease. *Experimental & molecular medicine*, 58(4), 993.

Soubeyrand S, et al. (2025) Deciphering the role of the lncRNA TRIBAL in hepatocyte models. *PloS one*, 20(9), e0322975.

Weng W, et al. (2024) ETV2 induces endothelial, but not hematopoietic, lineage specification in birds. *Life science alliance*, 7(6).

Hinrichs AK, et al. (2024) Dual-Luciferase Reporter Assay for Prescreening CRISPR (d)Cas9-Mediated Epigenetic Editing on a Plant Promoter Using Human Cells. *Methods in molecular biology* (Clifton, N.J.), 2788, 273.

Li Z, et al. (2023) Selective binding of retrotransposons by ZFP352 facilitates the timely dissolution of totipotency network. *Nature communications*, 14(1), 3646.

Ai Z, et al. (2022) Kr??ppel-like factor 5 rewires NANOG regulatory network to activate human naive pluripotency specific LTR7Ys and promote naive pluripotency. *Cell reports*, 40(8), 111240.

Weng W, et al. (2020) NPAS4L is involved in avian hemangioblast specification. *Haematologica*, 105(11), 2647.

Johnston AD, et al. (2019) Functional genetic variants can mediate their regulatory effects through alteration of transcription factor binding. *Nature communications*, 10(1), 3472.

Lau CH, et al. (2019) Targeted Transgene Activation in the Brain Tissue by Systemic Delivery of Engineered AAV1 Expressing CRISPRa. *Molecular therapy. Nucleic acids*, 16, 637.

Soubeyrand S, et al. (2019) Off-target effects of CRISPRa on interleukin-6 expression. *PloS one*, 14(10), e0224113.

Alateeq S, et al. (2018) Identification of on-target mutagenesis during correction of a beta-thalassemia splice mutation in iPS cells with optimised CRISPR/Cas9-double nickase reveals potential safety concerns. *APL bioengineering*, 2(4), 046103.

Yizhar-Barnea O, et al. (2018) DNA methylation dynamics during embryonic development and postnatal maturation of the mouse auditory sensory epithelium. *Scientific reports*, 8(1), 17348.

Pashos EE, et al. (2017) Large, Diverse Population Cohorts of hiPSCs and Derived Hepatocyte-like Cells Reveal Functional Genetic Variation at Blood Lipid-Associated Loci. *Cell stem cell*, 20(4), 558.

Lizio M, et al. (2017) Systematic analysis of transcription start sites in avian development. *PLoS biology*, 15(9), e2002887.

Kim V, et al. (2017) Mutant Cas9-transcriptional activator activates HIV-1 in U1 cells in the presence and absence of LTR-specific guide RNAs. *Matters*, 2017.

Goyal A, et al. (2017) A cautionary tale of sense-antisense gene pairs: independent regulation despite inverse correlation of expression. *Nucleic acids research*, 45(21), 12496.

Perrin A, et al. (2017) Increased Expression of Laminin Subunit Alpha 1 Chain by dCas9-VP160. *Molecular therapy. Nucleic acids*, 6, 68.

Jusiak B, et al. (2016) Engineering Synthetic Gene Circuits in Living Cells with CRISPR Technology. *Trends in biotechnology*, 34(7), 535.

Amabile A, et al. (2016) Inheritable Silencing of Endogenous Genes by Hit-and-Run Targeted Epigenetic Editing. *Cell*, 167(1), 219.

Wojtal D, et al. (2016) Spell Checking Nature: Versatility of CRISPR/Cas9 for Developing Treatments for Inherited Disorders. *American journal of human genetics*, 98(1), 90.