

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

3xFLAG-dCas9/pMXs-puro

RRID:Addgene_51240

Type: Plasmid

Proper Citation

RRID:Addgene_51240

Plasmid Information

URL: <http://www.addgene.org/51240>

Proper Citation: RRID:Addgene_51240

Insert Name: 3xFLAG-dCas9

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25051498](#)

Vector Backbone Description: Backbone Marker:Hodaka Fujii; Backbone Size:5791; Vector Backbone:pMXs-puro; Vector Types:Mammalian Expression, Retroviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: The coding sequence of 3xFLAG-dCas9 can be cleaved with Pac I and Not I. Construction strategy of gRNA retroviral vectors 1. Cleave gBlock from a gRNA vector constructed using gRNA cloning vector (Addgene #41824) with appropriate restriction enzymes (eg. [Xho I + Hind III], EcoR I). 2. Insert the cleaved gBlock into pSIR-based self-inactivating retroviral vectors. Vectors & Sites of insertion pSIR-neo (Addgene #51128): eg. [Xho I + Hind III] pSIR-GFP (Addgene #51134): eg. [Xho I + Hind III], EcoR I pSIR-DsRed-Express2 (Addgene #51135): eg. [Xho I + Hind III], EcoR I pSIR-hCD2 (Addgene #51143): eg. EcoR I

Plasmid Name: 3xFLAG-dCas9/pMXs-puro

Relevant Mutation: human codon-optimized, D10A + H840A

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260815T081612+0000

Ratings and Alerts

No rating or validation information has been found for 3xFLAG-dCas9/pMXs-puro.

No alerts have been found for 3xFLAG-dCas9/pMXs-puro.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Zhang Y, et al. (2026) A conserved hormonal signalling-H2A.Z axis rapidly reorganizes 3D chromatin interactions in adipocyte thermogenesis. *Nature metabolism*, 8(5), 1086.

Yuno M, et al. (2021) MSCV-based retroviral plasmids expressing 3xFLAG-Sp-dCas9 for enChIP analysis. *Biology methods & protocols*, 6(1), bpab013.

Shamsi F, et al. (2020) FGF6 and FGF9 regulate UCP1 expression independent of brown adipogenesis. *Nature communications*, 11(1), 1421.

Hamidian A, et al. (2018) Promoter-associated proteins of EPAS1 identified by enChIP-MS - A putative role of HDX as a negative regulator. *Biochemical and biophysical research communications*, 499(2), 291.

Han B, et al. (2018) FOXC1-induced non-canonical WNT5A-MMP7 signaling regulates invasiveness in triple-negative breast cancer. *Oncogene*, 37(10), 1399.

Fujita T, et al. (2017) Identification of physical interactions between genomic regions by enChIP-Seq. *Genes to cells : devoted to molecular & cellular mechanisms*, 22(6), 506.