

Resource Summary Report

Generated by [RRID](#) on Aug 28, 2026

EF1a-dCas9-KRAB-GFP backbone

RRID:Addgene_194281

Type: Plasmid

Proper Citation

RRID:Addgene_194281

Plasmid Information

URL: <http://www.addgene.org/194281>

Proper Citation: RRID:Addgene_194281

Insert Name: dCas9-KRAB-GFP

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:37534178](#)

Vector Backbone Description: Backbone Size:7000; Vector Backbone:FUGW; Addgene 71237; Vector Types:Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: Use Esp3I (type IIS restriction enzyme) for scarless insert of desired sgRNA downstream of U6 promoter. 5' ggacG(N)₂₀ 3' 5' aaac(N')₂₀c 3' Where N = 20 nt sgRNA sequence for your target gene ggac and aaac are the overhanging ends to complement the Esp3I cut p031. The extra g in the plus strand (and the complement c in the minus strand) is to promote RNA pol III transcriptional initiation. Please visit <https://doi.org/10.1101/2022.10.31.514562> for bioRxiv preprint.

Plasmid Name: EF1a-dCas9-KRAB-GFP backbone

Record Creation Time: 20230616T080413+0000

Record Last Update: 20260815T082646+0000

Ratings and Alerts

No rating or validation information has been found for EF1a-dCas9-KRAB-GFP backbone.

No alerts have been found for EF1a-dCas9-KRAB-GFP backbone.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Rieskamp JD, et al. (2023) Excitatory amino acid transporter 1 supports adult hippocampal neural stem cell self-renewal. iScience, 26(7), 107068.