

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

pCAG-denAsCas12a(E174R/S542R/K548R/D908A)-NLS(nuc)-3xHA-VPR (RTW776)

RRID:Addgene_107943

Type: Plasmid

Proper Citation

RRID:Addgene_107943

Plasmid Information

URL: <http://www.addgene.org/107943>

Proper Citation: RRID:Addgene_107943

Insert Name: human codon optimized DNase-inactive (D908A) enAsCas12a (E174R/S542R/K548R) fused to VPR activation domain

Organism: Acidaminococcus sp. BV3L6

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:30742127](#)

Vector Backbone Description: Backbone Marker:Connie Cepko lab (Addgene plasmid #11179); Vector Backbone:pCAG-CFP; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCAG-denAsCas12a(E174R/S542R/K548R/D908A)-NLS(nuc)-3xHA-VPR (RTW776)

Relevant Mutation: E174R, S542R, K548R and D908A

Record Creation Time: 20220422T221524+0000

Record Last Update: 20260808T080403+0000

Ratings and Alerts

No rating or validation information has been found for pCAG-denAsCas12a(E174R/S542R/K548R/D908A)-NLS(nuc)-3xHA-VPR (RTW776).

No alerts have been found for pCAG-denAsCas12a(E174R/S542R/K548R/D908A)-NLS(nuc)-3xHA-VPR (RTW776).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Melore SM, et al. (2024) HyperCas12a enables highly-multiplexed epigenome editing screens. bioRxiv : the preprint server for biology.

Oesinghaus L, et al. (2021) Controlling Gene Expression in Mammalian Cells Using Multiplexed Conditional Guide RNAs for Cas12a*. Angewandte Chemie (International ed. in English), 60(44), 23894.