

Resource Summary Report

Generated by T1D on Sep 22, 2026

pCAG-enAsCas12a(E174R/S542R/K548R)-NLS(nuc)-3xHA (AAS848)

RRID:Addgene_107941

Type: Plasmid

Proper Citation

RRID:Addgene_107941

Plasmid Information

URL: <http://www.addgene.org/107941>

Proper Citation: RRID:Addgene_107941

Insert Name: human codon optimized enAsCas12a (E174R/S542R/K548R)

Organism: Acidaminococcus sp. BV3L6

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:30742127](https://pubmed.ncbi.nlm.nih.gov/30742127/)

Vector Backbone Description: Backbone Marker:Connie Cepko lab (Addgene plasmid #111179); Vector Backbone:pCAG-CFP; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCAG-enAsCas12a(E174R/S542R/K548R)-NLS(nuc)-3xHA (AAS848)

Relevant Mutation: E174R, S542R and K548R

Record Creation Time: 20220422T221523+0000

Record Last Update: 20260919T090450+0000

Ratings and Alerts

No rating or validation information has been found for pCAG-enAsCas12a(E174R/S542R/K548R)-NLS(nuc)-3xHA (AAS848).

No alerts have been found for pCAG-enAsCas12a(E174R/S542R/K548R)-NLS(nuc)-3xHA (AAS848).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Gutiérrez-Galindo E, et al. (2025) PKD3 localizes to late endosomes to maintain Rab7-dependent endolysosomal homeostasis. *iScience*, 28(9), 113408.

Jabalera Y, et al. (2024) A resurrected ancestor of Cas12a expands target access and substrate recognition for nucleic acid editing and detection. *Nature biotechnology*.

Lee J, et al. (2023) Abnormal triaging of misfolded proteins by adult neuronal ceroid lipofuscinosis-associated DNAJC5/CSP? mutants causes lipofuscin accumulation. *Autophagy*, 19(1), 204.

Shomron O, et al. (2021) COPII collar defines the boundary between ER and ER exit site and does not coat cargo containers. *The Journal of cell biology*, 220(6).