

Resource Summary Report

Generated by [RRID](#) on Sep 4, 2026

pUCmini-iCAP-AAV.CAP-Mac

RRID:Addgene_200658

Type: Plasmid

Proper Citation

RRID:Addgene_200658

Plasmid Information

URL: <http://www.addgene.org/200658>

Proper Citation: RRID:Addgene_200658

Insert Name: Synthetic construct isolate AAV.CAP-Mac VP1 gene

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:37430038](#)

Vector Backbone Description: Vector Backbone:pUC57-mini; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Please note that this is a non-standard rep-cap construct. It uses a tTA-TRE amplification loop to increase Capsid expression and AAV production. We find that this system increases AAV titers 1.5-5 fold (Ben Deverman, Bryan Simpson and Paul Patterson, unpublished data). This is a tet-off system, so no dox or tet is needed to turn it on. It can be used like any other rep-cap plasmid. This system should only present a problem if the rAAV genome to be packaged has a tet responsive element that directs expression of a protein that affected the health of the production cells. The introduction of an XbaI restriction site for ease of cloning introduces a K449R mutation, which does not have an overt effect on vector production or transduction. This work was supported by funding from: NIH BRAIN Armamentarium UF1MH128336 Michael J Fox Foundation for Parkinson's Research ASAP-020495

Plasmid Name: pUCmini-iCAP-AAV.CAP-Mac

Relevant Mutation: 7 amino acid insertion after Q588 of the AAV9 CAP gene

Record Creation Time: 20230810T080441+0000

Record Last Update: 20260902T043616+0000

Ratings and Alerts

No rating or validation information has been found for pUCmini-iCAP-AAV.CAP-Mac.

No alerts have been found for pUCmini-iCAP-AAV.CAP-Mac.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.