

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 11, 2026

pUCmini-iCAP-PHP.eB

RRID:Addgene_103005

Type: Plasmid

Proper Citation

RRID:Addgene_103005

Plasmid Information

URL: <http://www.addgene.org/103005>

Proper Citation: RRID:Addgene_103005

Insert Name: Synthetic construct isolate AAV-PHP.eB VP1 gene

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:28671695](#)

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 We find that this system increases AAV titers 1.5-5 fold (Ben Deverman, Bryan Simpson and Paul Patterson, unpublished data).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.

Plasmid Name: pUCmini-iCAP-PHP.eB

Record Creation Time: 20220422T221458+0000

Record Last Update: 20260808T080320+0000

Ratings and Alerts

No rating or validation information has been found for pUCmini-iCAP-PHP.eB.

No alerts have been found for pUCmini-iCAP-PHP.eB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 135 mentions in open access literature.

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

Ono H, et al. (2026) Computationally guided discovery of Ly6e/LY6E-dependent AAV capsid variants. *iScience*, 29(5), 115554.

Liu Y, et al. (2026) UBQLN2 links proteotoxicity with lipid metabolism in neurodegeneration. *Nature neuroscience*, 29(4), 782.

Graham N, et al. (2026) Receptor-guided AAV Tropism Engineering via MATCH. *bioRxiv* : the preprint server for biology.

Anderson CJ, et al. (2026) Viral vector-mediated SLC9A6 gene replacement reduces cerebellar motor and molecular abnormalities in the shaker rat model of Christianson syndrome. *Human molecular genetics*, 35(6).

Noes-Holt G, et al. (2026) Recombinant dimeric PICK1 peptide inhibitors for long-term relief of chronic pain by AAV therapeutics. *Cell reports. Medicine*, 7(6), 102800.

Jackson CR, et al. (2026) Defining a Midgestational Window for In Utero Genome Editing of the Fetal Murine Cortex. *bioRxiv* : the preprint server for biology.

Hasegawa K, et al. (2026) Age-related decline in nuclear envelope LINC complex drives neuronal aging via axon initial segment dysfunction. *EMBO reports*, 27(13), 3788.

Yan Y, et al. (2026) Genetically encoded assembly recorder temporally resolves cellular history. *Nature*, 652(8111), 1049.

Gonzales JPM, et al. (2026) Sphingosine-1-Phosphate Receptor 1 regulates competition dependent astrocyte morphogenesis and tiling in murine cortex. *bioRxiv* : the preprint server for biology.

Radukic MT, et al. (2026) Engineering of High-Yield Recombinant Adeno-Associated Virus Producer Plasmids. *Biotechnology journal*, 21(1), e70179.

Gonzales JPM, et al. (2026) Sphingosine-1-Phosphate Receptor 1 Regulates Competition Dependent Astrocyte Morphogenesis and Tiling in Murine Cortex. *Glia*, 74(8), e70177.

Lin J, et al. (2026) AAVLINK: A potent DNA-recombination method for large cargo delivery in gene therapy. *Cell*, 189(3), 969.

Liu Z, et al. (2025) Regulation of Sleep Amount by CRTCL1 via Transcription of Crh in Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(5).

Liu TM, et al. (2025) Dysregulation of AGO2-miRNA dynamics underlies the AGO2-associated Lessel-Kreienkamp syndrome. *Nucleic acids research*, 53(19).

Velazquez-Rivera E, et al. (2025) Specific targeting of brain endothelial cells using enhancer AAV vectors. *Neuron*, 113(10), 1562.

Ben-Simon Y, et al. (2025) A suite of enhancer AAVs and transgenic mouse lines for genetic access to cortical cell types. *Cell*, 188(11), 3045.

Lalanne JB, et al. (2025) Extensive length and homology dependent chimerism in pool-packaged AAV libraries. *bioRxiv : the preprint server for biology*.

Ando D, et al. (2025) Decoding Codon Bias: The Role of tRNA Modifications in Tissue-Specific Translation. *International journal of molecular sciences*, 26(2).

Kanaya HJ, et al. (2025) Isoflurane activates the type 1 ryanodine receptor to induce anesthesia in mice. *PLoS biology*, 23(6), e3003172.

Zhou M, et al. (2025) AIF3 splicing variant elicits mitochondrial malfunction via the concurrent dysregulation of electron transport chain and glutathione-redox homeostasis. *Nature communications*, 16(1), 1804.