

Resource Summary Report

Generated by [kravitz2](#) on Sep 2, 2026

Epac-S-H187

RRID:Addgene_170348

Type: Plasmid

Proper Citation

RRID:Addgene_170348

Plasmid Information

URL: <http://www.addgene.org/170348>

Proper Citation: RRID:Addgene_170348

Insert Name: mT2Del_EPACdDEPCD_Q270E_tdcp173Ven(ST)

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25875503](#)

Vector Backbone Description: Backbone Size:5500; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: Epac-S-H187

Relevant Mutation: Deletion of DEP domain, Catalytically dead T781A & F782A, increased affinity for cAMP Q270E

Record Creation Time: 20220422T221952+0000

Record Last Update: 20260902T042816+0000

Ratings and Alerts

No rating or validation information has been found for Epac-S-H187.

No alerts have been found for Epac-S-H187.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Bathe-Peters M, et al. (2026) Effects of altered gravity on adrenergic-mediated cAMP signalling in intact cells. NPJ microgravity, 12(1).

Xiang W, et al. (2025) Diminished nuclear-localized β -adrenoceptor signalling activates YAP to promote kidney fibrosis in diabetic nephropathy. British journal of pharmacology, 182(20), 4926.

Kaelin CB, et al. (2025) Molecular and genetic characterization of sex-linked orange coat color in the domestic cat. Current biology : CB, 35(12), 2826.

Conca F, et al. (2025) Phosphatases Control the Duration and Range of cAMP/PKA Microdomains. Function (Oxford, England), 6(2).

Le JQ, et al. (2024) Light and dopamine impact two circadian neurons to promote morning wakefulness. bioRxiv : the preprint server for biology.

Sirbu A, et al. (2024) Cell swelling enhances ligand-driven β -adrenergic signaling. Nature communications, 15(1), 7822.

Scorza SI, et al. (2023) TRPML1-Induced Lysosomal Ca^{2+} Signals Activate AQP2 Translocation and Water Flux in Renal Collecting Duct Cells. International journal of molecular sciences, 24(2).