

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pDEST40-MCU-V5-HIS

RRID:Addgene_31731

Type: Plasmid

Proper Citation

RRID:Addgene_31731

Plasmid Information

URL: <http://www.addgene.org/31731>

Proper Citation: RRID:Addgene_31731

Insert Name: MCU

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21685886](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5485; Vector Backbone:pDEST40-pcDNA; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pDEST40-MCU-V5-HIS

Record Creation Time: 20220422T222137+0000

Record Last Update: 20260815T081335+0000

Ratings and Alerts

No rating or validation information has been found for pDEST40-MCU-V5-HIS.

No alerts have been found for pDEST40-MCU-V5-HIS.

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 [RRID](#) .

Ashrafi G, et al. (2020) Molecular Tuning of the Axonal Mitochondrial Ca²⁺ Uniporter Ensures Metabolic Flexibility of Neurotransmission. *Neuron*, 105(4), 678.

Li X, et al. (2020) Mechanisms of malignancy in glioblastoma cells are linked to mitochondrial Ca²⁺ uniporter upregulation and higher intracellular Ca²⁺ levels. *Journal of cell science*, 133(6).

Wiersma M, et al. (2019) Mitochondrial Dysfunction Underlies Cardiomyocyte Remodeling in Experimental and Clinical Atrial Fibrillation. *Cells*, 8(10).

Arruda AP, et al. (2014) Chronic enrichment of hepatic endoplasmic reticulum-mitochondria contact leads to mitochondrial dysfunction in obesity. *Nature medicine*, 20(12), 1427.