

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

pDONR223-PRKAA1

RRID:Addgene_23871

Type: Plasmid

Proper Citation

RRID:Addgene_23871

Plasmid Information

URL: <http://www.addgene.org/23871>

Proper Citation: RRID:Addgene_23871

Insert Name: PRKAA1

Organism: Homo sapiens

Bacterial Resistance: Spectinomycin

Defining Citation: [PMID:21107320](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5005; Vector Backbone:pDONR223; Vector Types:Gateway Cloning; Bacterial Resistance:Spectinomycin

Comments: The ORF has no Stop codon. This design enables easy recombination into a destination vector to add an epitope tag of choice and Stop codon to the ORF. Do NOT use this plasmid directly for transfections. A set of 4 custom lentiviral vectors is available (pLX301 (<http://www.addgene.org/25895/>) , pLX302 (<http://www.addgene.org/25896/>) , pLX303 (<http://www.addgene.org/25897/>) , pLX304 (<http://www.addgene.org/25890/>)) to be used to express these ORFs in mammalian cells. These plasmids are not included in the kit and must be ordered separately.

Plasmid Name: pDONR223-PRKAA1

Record Creation Time: 20220422T222106+0000

Record Last Update: 20260815T081225+0000

Ratings and Alerts

No rating or validation information has been found for pDONR223-PRKAA1.

No alerts have been found for pDONR223-PRKAA1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Zhao H, et al. (2019) AMPK-mediated activation of MCU stimulates mitochondrial Ca²⁺ entry to promote mitotic progression. Nature cell biology, 21(4), 476.

Lopez-Mejia IC, et al. (2017) CDK4 Phosphorylates AMPK γ 2 to Inhibit Its Activity and Repress Fatty Acid Oxidation. Molecular cell, 68(2), 336.