

# Resource Summary Report

Generated by [dkNET](#) on Aug 6, 2026

## pDONR223-PIP5K2C

RRID:Addgene\_23450

Type: Plasmid

---

### Proper Citation

RRID:Addgene\_23450

---

### Plasmid Information

**URL:** <http://www.addgene.org/23450>

**Proper Citation:** RRID:Addgene\_23450

**Insert Name:** PIP5K2C

**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-PIP5K2C

**Relevant Mutation:** 1MM

**Record Creation Time:** 20220422T222104+0000

**Record Last Update:** 20260801T081023+0000

---

### Ratings and Alerts

No rating or validation information has been found for pDONR223-PIP5K2C.

No alerts have been found for pDONR223-PIP5K2C.

---

## Data and Source Information

**Source:** [Addgene](#)

---

## Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Karim M, et al. (2025) PIP4K2C inhibition reverses autophagic flux impairment induced by SARS-CoV-2. Nature communications, 16(1), 6397.

Rogava M, et al. (2024) Loss of Pip4k2c confers liver-metastatic organotropism through insulin-dependent PI3K-AKT pathway activation. Nature cancer, 5(3), 433.

Karim M, et al. (2024) PIP4K2C inhibition reverses autophagic flux impairment induced by SARS-CoV-2. bioRxiv : the preprint server for biology.