

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pLYS5-MCU-Flag

RRID:Addgene_50054

Type: Plasmid

Proper Citation

RRID:Addgene_50054

Plasmid Information

URL: <http://www.addgene.org/50054>

Proper Citation: RRID:Addgene_50054

Insert Name: MCU-Flag

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24231807](#)

Vector Backbone Description: Backbone Size:8062; Vector Backbone:pLYS5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pLYS5-MCU-Flag

Record Creation Time: 20220422T222257+0000

Record Last Update: 20260815T081604+0000

Ratings and Alerts

No rating or validation information has been found for pLYS5-MCU-Flag.

No alerts have been found for pLYS5-MCU-Flag.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Bhardwaj R, et al. (2026) Deletion of mitochondrial calcium uniporter enhances calcium signals by slowing calcium clearance and triggers adaptive transcriptomic remodeling. The Journal of biological chemistry, 302(6), 111473.

Liu R, et al. (2025) Cellular pan-chain acyl-CoA profiling reveals SLC25A42/SLC25A16 in mitochondrial CoA import and metabolism. Nature metabolism, 7(9), 1871.

Chiu HY, et al. (2022) Mitochondrial calcium uptake regulates tumour progression in embryonal rhabdomyosarcoma. Cell death & disease, 13(4), 419.

Markhard AL, et al. (2022) A genetically encoded system for oxygen generation in living cells. Proceedings of the National Academy of Sciences of the United States of America, 119(43), e2207955119.

MacEwen MJ, et al. (2020) Evolutionary divergence reveals the molecular basis of EMRE dependence of the human MCU. Life science alliance, 3(10).