Resource Summary Report

Generated by RRID on Aug 19, 2026

pLV-mitoDsRed

RRID:Addgene_44386
Type: Plasmid

Proper Citation

RRID:Addgene_44386

Plasmid Information

URL: http://www.addgene.org/44386

Proper Citation: RRID:Addgene_44386

Insert Name: mitoDsRed

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:23314018

Vector Backbone Description: Backbone Size:6727; Vector Backbone:pLV; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: Limitations of allotopic expression of mitochondrial genes in mammalian cells. Oca-Cossio J, Kenyon L, Hao H, Moraes CT. Genetics. 2003 Oct;165(2):707-20. PMID: 14573482

Plasmid Name: pLV-mitoDsRed

Record Creation Time: 20220422T222229+0000

Record Last Update: 20260815T081514+0000

Ratings and Alerts

No rating or validation information has been found for pLV-mitoDsRed.

No alerts have been found for pLV-mitoDsRed.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 38 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Costabile F, et al. (2026) Tumor-to-endothelium mitochondrial transfer licenses endothelial cells for CD8+ T cell recognition via mitochondrial neoantigen presentation. bioRxiv : the preprint server for biology.

Liu D, et al. (2025) Optineurin-facilitated axonal mitochondria delivery promotes neuroprotection and axon regeneration. Nature communications, 16(1), 1789.

Monavarian M, et al. (2025) ACTL6A regulates the Warburg effect through coordinated activation of AP-1 signaling in head and neck squamous cell carcinoma. bioRxiv : the preprint server for biology.

Ikeda H, et al. (2025) Immune evasion through mitochondrial transfer in the tumour microenvironment. Nature, 638(8049), 225.

Vekariya U, et al. (2024) PARG is essential for Pol?-mediated DNA end-joining by removing repressive poly-ADP-ribose marks. Nature communications, 15(1), 5822.

Pilic J, et al. (2024) Hexokinase 1 forms rings that regulate mitochondrial fission during energy stress. Molecular cell, 84(14), 2732.

Raghavan A, et al. (2024) Astroglia proliferate upon the biogenesis of tunneling nanotubes via ?-synuclein dependent transient nuclear translocation of focal adhesion kinase. iScience, 27(8), 110565.

Javed Z, et al. (2024) Alternative splice variants of the mitochondrial fission protein DNM1L/Drp1 regulate mitochondrial dynamics and cell fate in ovarian cancer. bioRxiv : the preprint server for biology.

Kunnas K, et al. (2024) Progression of herpesvirus infection is inhibited by calcium reporter. microPublication biology, 2024.

Bootsma S, et al. (2024) Exploiting a subtype-specific mitochondrial vulnerability for successful treatment of colorectal peritoneal metastases. Cell reports. Medicine, 5(5), 101523.

Liu D, et al. (2024) Optineurin-facilitated axonal mitochondria delivery promotes neuroprotection and axon regeneration. bioRxiv : the preprint server for biology.

Zhang L, et al. (2024) UGT8 mediated sulfatide synthesis modulates BAX localization and dictates apoptosis sensitivity of colorectal cancer. Cell death and differentiation.

Yang S, et al. (2024) NMNAT2 supports vesicular glycolysis via NAD homeostasis to fuel fast axonal transport. Molecular neurodegeneration, 19(1), 13.

Yang S, et al. (2023) NMNAT2 supports vesicular glycolysis via NAD homeostasis to fuel fast axonal transport. Research square.

Watson DC, et al. (2023) GAP43-dependent mitochondria transfer from astrocytes enhances glioblastoma tumorigenicity. Nature cancer, 4(5), 648.

Puccini J, et al. (2023) Cytoskeletal association of ATP citrate lyase controls the mechanodynamics of macropinocytosis. Proceedings of the National Academy of Sciences of the United States of America, 120(8), e2213272120.

Dentoni G, et al. (2022) Mitochondrial Alterations in Neurons Derived from the Murine AppNL-F Knock-In Model of Alzheimer's Disease. Journal of Alzheimer's disease : JAD, 90(2), 565.

Zamponi N, et al. (2022) Universal dynamics of mitochondrial networks: a finite-size scaling analysis. Scientific reports, 12(1), 17074.

van der Vlist M, et al. (2022) Macrophages transfer mitochondria to sensory neurons to resolve inflammatory pain. Neuron, 110(4), 613.

Pero ME, et al. (2021) Pathogenic role of delta 2 tubulin in bortezomib-induced peripheral neuropathy. Proceedings of the National Academy of Sciences of the United States of America, 118(4).