Resource Summary Report

Generated by nidm-terms on Sep 20, 2026

pRK5-myc-Miro1

RRID:Addgene_47888
Type: Plasmid

Proper Citation

RRID:Addgene_47888

Plasmid Information

URL: http://www.addgene.org/47888

Proper Citation: RRID:Addgene_47888

Insert Name: Miro1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:12482879

Vector Backbone Description: Vector Backbone:pRK5-myc; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pRK5-myc-Miro1

Record Creation Time: 20220422T222246+0000

Record Last Update: 20260919T091914+0000

Ratings and Alerts

No rating or validation information has been found for pRK5-myc-Miro1.

No alerts have been found for pRK5-myc-Miro1.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 13 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Endoni BT, et al. (2025) MIRO1 Is Required for Dynamic Increases in Mitochondria-ER Contact Sites and Mitochondrial ATP During the Cell Cycle. Cells, 14(7).

Wu C, et al. (2024) Altered anterograde axonal transport of mitochondria in cultured striatal neurons of a knock-in mouse model of Huntington's disease. Biochemical and biophysical research communications, 691, 149246.

Covill-Cooke C, et al. (2024) Shared structural features of Miro binding control mitochondrial homeostasis. The EMBO journal, 43(4), 595.

Liiv M, et al. (2024) ER calcium depletion as a key driver for impaired ER-to-mitochondria calcium transfer and mitochondrial dysfunction in Wolfram syndrome. Nature communications, 15(1), 6143.

Guill??n-Samander A, et al. (2021) VPS13D bridges the ER to mitochondria and peroxisomes via Miro. The Journal of cell biology, 220(5).

Wang F, et al. (2021) MICAL2PV suppresses the formation of tunneling nanotubes and modulates mitochondrial trafficking. EMBO reports, 22(7), e52006.

Agarwal S, et al. (2020) Perinuclear mitochondrial clustering, increased ROS levels, and HIF1 are required for the activation of HSF1 by heat stress. Journal of cell science, 133(13).

Kalinski AL, et al. (2019) Deacetylation of Miro1 by HDAC6 blocks mitochondrial transport and mediates axon growth inhibition. The Journal of cell biology, 218(6), 1871.

Kay LJ, et al. (2019) Proteomics and bioinformatics analyses identify novel cellular roles outside mitochondrial function for human miro GTPases. Molecular and cellular biochemistry, 451(1-2), 21.

Schiavon CR, et al. (2019) ELMOD2 regulates mitochondrial fusion in a mitofusin-dependent manner, downstream of ARL2. Molecular biology of the cell, 30(10), 1198.

Walch L, et al. (2018) GBF1 and Arf1 interact with Miro and regulate mitochondrial positioning within cells. Scientific reports, 8(1), 17121.

Lawrence EJ, et al. (2016) Mitochondria-cytoskeleton associations in mammalian cytokinesis. Cell division, 11, 3.

Jackson JG, et al. (2015) Reciprocal Regulation of Mitochondrial Dynamics and Calcium Signaling in Astrocyte Processes. The Journal of neuroscience : the official journal of the Society for Neuroscience, 35(45), 15199.