

Resource Summary Report

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

pRK5-myc-Miro2

RRID:Addgene_47891

Type: Plasmid

Proper Citation

RRID:Addgene_47891

Plasmid Information

URL: <http://www.addgene.org/47891>

Proper Citation: RRID:Addgene_47891

Insert Name: Miro2

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-Miro2

Record Creation Time: 20220422T222246+0000

Record Last Update: 20260815T081545+0000

Ratings and Alerts

No rating or validation information has been found for pRK5-myc-Miro2.

No alerts have been found for pRK5-myc-Miro2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Shembekar SS, et al. (2025) Regulation of mitochondrial cristae organization by Myo19, Miro1 and Miro2, and metaxin 3. *Journal of cell science*, 138(9).

Stephan G, et al. (2024) Modulation of GPR133 (ADGRD1) signaling by its intracellular interaction partner extended synaptotagmin 1. *Cell reports*, 43(5), 114229.

Guillén-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.

Bocanegra JL, et al. (2020) The MyMOMA domain of MYO19 encodes for distinct Miro-dependent and Miro-independent mechanisms of interaction with mitochondrial membranes. *Cytoskeleton (Hoboken, N.J.)*, 77(3-4), 149.

Chung E, et al. (2020) Intracellular delivery of Parkin rescues neurons from accumulation of damaged mitochondria and pathological α -synuclein. *Science advances*, 6(18), eaba1193.

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

López-Doménech G, et al. (2016) Loss of Dendritic Complexity Precedes Neurodegeneration in a Mouse Model with Disrupted Mitochondrial Distribution in Mature Dendrites. *Cell reports*, 17(2), 317.

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.