

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

PMXS-NDI1

RRID:Addgene_72876

Type: Plasmid

Proper Citation

RRID:Addgene_72876

Plasmid Information

URL: <http://www.addgene.org/72876>

Proper Citation: RRID:Addgene_72876

Insert Name: NDI1

Organism: Saccharomyces cerevisiae

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24670634](#)

Vector Backbone Description: Backbone Size:5639; Vector Backbone:pMXs-IRES-blasticidin; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: The retroviral NDI1 vector was generated by cloning into the EcoRI and XhoI sites of the pMXS-ires-blast vector a cDNA insert generated by PCR using the primers below, followed by standard cloning techniques. Ndi1 EcoRI F: ATGAATTCCATCACATCATCGAATTAC Ndi1 XhoI R: ATCTCGAGAAAAGGGCATGTTAATTTTCATCTATAAT It is a retroviral plasmid so it may be recommended to be propagated at 30°C but author typically grows it at 37°C.

Plasmid Name: PMXS-NDI1

Record Creation Time: 20220422T222447+0000

Record Last Update: 20260815T081923+0000

Ratings and Alerts

No rating or validation information has been found for PMXS-NDI1.

No alerts have been found for PMXS-NDI1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Zhu L, et al. (2026) RNA binding protein Pcbp1 maintains mitochondria integrity to promote antibody production and germinal center response. Science advances, 12(15), eadz9095.

Koh J, et al. (2026) ZNF395 Is a Hypoxia-Responsive Regulator of Mitochondrial Glutaminolysis in Clear Cell Renal Cell Carcinoma. Cancer research, 86(7), 1676.

Karki BR, et al. (2025) The role of gene duplication and paralog specialisation in the evolution of the mammalian PRPS complex. Nature communications, 16(1), 6076.

Tau S, et al. (2025) Oxidative Phosphorylation Is a Metabolic Vulnerability of Endocrine Therapy-Tolerant Persister Cells in ER+ Breast Cancer. Cancer research, 85(6), 1145.

MacMillan AC, et al. (2025) PRPS activity tunes redox homeostasis in Myc-driven lymphoma. bioRxiv : the preprint server for biology.

MacMillan AC, et al. (2025) PRPS activity tunes redox homeostasis in Myc-driven lymphoma. Redox biology, 84, 103649.

Zhou M, et al. (2025) AIF3 splicing variant elicits mitochondrial malfunction via the concurrent dysregulation of electron transport chain and glutathione-redox homeostasis. Nature communications, 16(1), 1804.

Tiedemann RL, et al. (2024) UHRF1 ubiquitin ligase activity supports the maintenance of low-density CpG methylation. Nucleic acids research, 52(22), 13733.

Tau S, et al. (2024) Endocrine persistence in ER+ breast cancer is accompanied by metabolic vulnerability in oxidative phosphorylation. bioRxiv : the preprint server for biology.

Tiedemann RL, et al. (2024) UHRF1 ubiquitin ligase activity supports the maintenance of low-density CpG methylation. bioRxiv : the preprint server for biology.

Hosseini M, et al. (2024) Metformin reduces the clonal fitness of Dnmt3aR878H hematopoietic stem and progenitor cells by reversing their aberrant metabolic and epigenetic state. Research square.

Wu Z, et al. (2024) Electron transport chain inhibition increases cellular dependence on purine transport and salvage. Cell metabolism, 36(7), 1504.

Bezwada D, et al. (2024) Mitochondrial complex I promotes kidney cancer metastasis. *Nature*, 633(8031), 923.

Bezwada D, et al. (2023) Mitochondrial metabolism in primary and metastatic human kidney cancers. *bioRxiv* : the preprint server for biology.

Chen X, et al. (2023) In vivo protein turnover rates in varying oxygen tensions nominate MYBBP1A as a mediator of the hyperoxia response. *Science advances*, 9(49), eadj4884.

Wu Z, et al. (2023) Electron transport chain inhibition increases cellular dependence on purine transport and salvage. *bioRxiv* : the preprint server for biology.

Pachnis P, et al. (2022) In vivo isotope tracing reveals a requirement for the electron transport chain in glucose and glutamine metabolism by tumors. *Science advances*, 8(35), eabn9550.

Zhu X, et al. (2022) BRN2 as a key gene drives the early primate telencephalon development. *Science advances*, 8(9), eabl7263.

Donati G, et al. (2022) Targeting mitochondrial respiration and the BCL2 family in high-grade MYC-associated B-cell lymphoma. *Molecular oncology*, 16(5), 1132.

Schwartz AJ, et al. (2021) Hepcidin sequesters iron to sustain nucleotide metabolism and mitochondrial function in colorectal cancer epithelial cells. *Nature metabolism*, 3(7), 969.