

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.

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

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*.

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

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*.

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.

Tramonti A, et al. (2021) Metformin Is a Pyridoxal-5'-phosphate (PLP)-Competitive Inhibitor of SHMT2. *Cancers*, 13(16).