

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

mouse Drp1(K38A)

RRID:Addgene_26049

Type: Plasmid

Proper Citation

RRID:Addgene_26049

Plasmid Information

URL: <http://www.addgene.org/26049>

Proper Citation: RRID:Addgene_26049

Insert Name: Drp1

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:12527753](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5400; Vector Backbone:pcDNA3.1(-)Myc/His; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Though this vector backbone has Myc and His tags, they are not in frame with the Drp1. Do not use these tags for purification or detection after expression.

Plasmid Name: mouse Drp1(K38A)

Relevant Mutation: K38A GTPase mutant

Record Creation Time: 20220422T222116+0000

Record Last Update: 20260815T081247+0000

Ratings and Alerts

No rating or validation information has been found for mouse Drp1(K38A).

No alerts have been found for mouse Drp1(K38A).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

King WT, et al. (2021) Dynamin-related protein 1 regulates substrate oxidation in skeletal muscle by stabilizing cellular and mitochondrial calcium dynamics. The Journal of biological chemistry, 297(4), 101196.

Casellas-D??az S, et al. (2021) Mfn2 localization in the ER is necessary for its bioenergetic function and neuritic development. EMBO reports, 22(9), e51954.

Wu D, et al. (2020) Identification of novel dynamin-related protein 1 (Drp1) GTPase inhibitors: Therapeutic potential of Drpitor1 and Drpitor1a in cancer and cardiac ischemia-reperfusion injury. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 34(1), 1447.

Civenni G, et al. (2019) Epigenetic Control of Mitochondrial Fission Enables Self-Renewal of Stem-like Tumor Cells in Human Prostate Cancer. Cell metabolism, 30(2), 303.

Upadhyay M, et al. (2017) Loss of laforin or malin results in increased Drp1 level and concomitant mitochondrial fragmentation in Lafora disease mouse models. Neurobiology of disease, 100, 39.

Adams WC, et al. (2016) Anabolism-Associated Mitochondrial Stasis Driving Lymphocyte Differentiation over Self-Renewal. Cell reports, 17(12), 3142.

Martorell-Riera A, et al. (2014) Mfn2 downregulation in excitotoxicity causes mitochondrial dysfunction and delayed neuronal death. The EMBO journal, 33(20), 2388.