

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

PGC-1 alpha promoter luciferase delta MEF

RRID:Addgene_8889

Type: Plasmid

Proper Citation

RRID:Addgene_8889

Plasmid Information

URL: <http://www.addgene.org/8889>

Proper Citation: RRID:Addgene_8889

Insert Name: PGC-1 alpha promoter dMEF

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:12764228](#)

Vector Backbone Description: Backbone Marker:Promega; Backbone Size:4818; Vector Backbone:pGL3-basic; Vector Types:Mammalian Expression, Luciferase; Bacterial Resistance:Ampicillin

Comments: 5' flanking sequence of mouse PGC-1 alpha gene PCR amplified between +78 and -2533 with respect to the transcriptional start site. Mutation of the MEF site between -1464 and -1447 from CTAAATATAA to CTCCGCGGAA.

Plasmid Name: PGC-1 alpha promoter luciferase delta MEF

Relevant Mutation: Site-directed mutagenesis to remove the MEF2 binding site.

Record Creation Time: 20220422T222606+0000

Record Last Update: 20260725T075330+0000

Ratings and Alerts

No rating or validation information has been found for PGC-1 alpha promoter luciferase delta MEF.

No alerts have been found for PGC-1 alpha promoter luciferase delta MEF.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

You CL, et al. (2023) Inonotus obliquus upregulates muscle regeneration and augments function through muscle oxidative metabolism. International journal of biological sciences, 19(15), 4898.

Chen YT, et al. (2021) Embryonic exposure to hyper glucocorticoids suppresses brown fat development and thermogenesis via REDD1. Science bulletin, 66(5), 478.

Kim H, et al. (2020) Indoprofen prevents muscle wasting in aged mice through activation of PDK1/AKT pathway. Journal of cachexia, sarcopenia and muscle, 11(4), 1070.

Lira VA, et al. (2010) Nitric oxide and AMPK cooperatively regulate PGC-1 in skeletal muscle cells. The Journal of physiology, 588(Pt 18), 3551.