

Recombinant Mouse Ppargc1a protein, His-tagged

Cat. No. Ppargc1a-8492M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ppargc1a(Cys577-Asn766) fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	577-766 a.a.
Description	This gene encodes a transcriptional coactivator that induces and coordinates gene expression regulating mitochondrial biogenesis, respiration, hepatic gluconeogenesis, thermogenic program in brown fat and muscle fiber-type switching. Mice lacking the encoded protein exhibit reduced thermogenic capacity, hyperactivity and resistance to diet-induced obesity. Mice lacking the encoded protein specifically in the heart exhibit peripartum cardiomyopathy. Alternative splicing results in multiple transcript variants.
Molecular Mass	24.7 kDa
AA Sequence	MGHHHHHHSGSEF- CSRS PYSRSRSRSP GSRSSSRSCY YYESSHYRHR THRNSPLYVR SRSRSPYSRR PRYDSYEAYE HERLKRDEYR KEHEKRESER AKQRERQKQK AIEERRVIYV GKIRPDTRT ELRDRFEVFG EIEECTVNLN DDGDSYGFIT YRYTCDAFAA LENGTYLRRS NETDFELYFC GRKQFFKSNY ADLDTN
Purity	Purity is > 95%.

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Applications SDS-PAGE, WB, ELISA, IP

GENE INFORMATION

Gene Name Ppargc1a peroxisome proliferative activated receptor, gamma, coactivator 1 alpha [*Mus musculus*]

Official Symbol Ppargc1a

Synonyms PPARGC1A; peroxisome proliferative activated receptor, gamma, coactivator 1 alpha; peroxisome proliferator-activated receptor gamma coactivator 1-alpha; PGC-1-alpha; Pgc-1alphaa; PPARGC-1-alpha; PPAR Gamma Coactivator-1; PPAR-gamma coactivator 1-alpha; PPAR gamma coactivator variant form; Pgc1; PGC-1; Pgco1; PGC-1v; Gm11133; Ppargc1; Pgc-1alpha; A830037N07Rik; ENSMUSG00000079510;

Gene ID 19017

mRNA Refseq NM_008904

Protein Refseq NP_032930

MIM

UniProt ID O70343

Chromosome Location 5; 5 C1

Pathway Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by

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REV-ERBA, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Huntingtons disease, organism-specific biosystem;

Function

DNA binding; RNA binding; ligand-dependent nuclear receptor binding; ligand-dependent nuclear receptor transcription coactivator activity; nucleic acid binding; nucleotide binding; protein binding; receptor activity; transcription coactivator activity; transcription coactivator activity; transcription factor binding;

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