

Product datasheet for **MR210710**

Ppargc1a (NM_008904) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppargc1a (NM_008904) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppargc1a
Synonyms:	A830037N07Rik; Gm11133; Pgc; PGC-1; Pgc-1alpha; Pgc1; Pgco1; PPARGC-1-alpha; Ppargc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210710 representing NM_008904
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTGGGACATGTGCAGCCAAGACTCTGTATGGAGTGACATAGAGTGTGCTGCTCTGGTTGGTGAGG
ACCAGCCTCTTTGCCAGATCTTCTGAACTTGACCTTTCTGAACTTGATGTGAATGACTTGGATACAGA
CAGCTTTCTGGGTGGATTGAAGTGGTGTAGCGACCAATCGGAAATCATATCCAACCAAGTACAACAATGAG
CCTGCGAACATATTTGAGAAGATAGATGAAGAGAATGAGGCAAACCTTGCTAGCGGTCTCACAGAGACAC
TGGACAGTCTCCCGTGGATGAAGACGGATTGCCCTCATTTGATGCACTGACAGATGGAGCCGTGACCAC
TGACAACGAGGCCAGTCTTCTCCATGCCTGACGGCACCCCTCCCTCAGGAGGCAGAAGAGCCGTCT
CTACTTAAGAAGCTTACTGGCACCAGCCAACACTCAGCTCAGTACAATGAATGCAGCGGTCTTAGCA
CTCAGAACCATGCAGCAAACACACCCACAGGATCAGAACAACCCCTGCCATTGTTAAGACCGAGAATTC
ATGGAGCAATAAAGCGAAGAGCATTTGTCAACAGCAAAAGCCACAAGACGTCCCTGCTCAGAGCTTCTC
AAGTATCTGACCACAAACGATGACCTCCTCACACCAAACCCACAGAAAACAGGAACAGCAGCAGAGACA
AATGTGCTTCCAAAAAGAGTCCCATACACAACCCGAGTCGCAACATGCTCAAGCCAAACCAACAATTT
ATCTCTTCTCTGACCCAGAGTCACCAATGACCCCAAGGGTCCCATTTGAGAAACAGACTATTGAG
CGAACCTTAAGTGTGAACTCTCTGAACTGCAGGCCTAACTCCTCCACAACCTCCTCTATAAAGCCA
ACCAAGATAACCCCTTCAAGGCTTCGCCAAAGCTGAAGCCCTCTTGAAGACCGTGGTGCCACCGCCAAC
CAAGAGGGCCCGTACAGCGAGTGTCTGGTACCAAGGCAGCCACTCCACCAAGAAAGGGCCCGAGCAA
TCTGAGTTGTACGCACAACCTCAGCAAGTCTCAGGGCTCAGCCGAGGACACGAGGAAAGGAAGACTAAAC
GGCCCACTTTCGGCTGTTTGGTGACCATGACTATTGTGCTCACTCAATTCCAAAACGGATATACTCAT
TAACATATCACAGGAGCTCCAAGACTCTAGACAACCTAGACTTCAAAGATGCCTCCTGTGACTGGCAGGGG
CACATCTGTTCTTCCACAGATTCAGGCCAGTGCTACCTGAGAGAGACTTTGGAGGCCAGCAAGCAGGTCT
CTCCTTGACAGCACCAGAAAACAGCTCCAAGACCAGGAAATCCGAGCGGAGCTGAACAAGCACTTCGGTCA
TCCCTGTCAAGCTGTGTTTACGACAAAATCAGACAAGACCAGTGAACCTAAGGGATGGCGACTTCAGTAAT
GAACAATTCTCCAACTACCTGTGTTTATAAATTCAGGACTAGCCATGGATGGCCTATTTGATGACAGTG
AAGATGAAAGTGATAAACTGAGCTACCCTTGGGATGGCACGCAGCCCTATTCATTGTTGATGTGTCGCC
TTCTTGCTCTTCTTAACTCTCCGTGTCGAGACTCAGTGTACCACCGAAATCCTTATTTCTCAAAGA
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GGTCAAGATTAAGTCCCAGGCAGTAGATCCTTCAAGATCCTGTTACTACTGAATCAAGCCACTA
CAGACACCGCACACCCGAATTCCTCCTGTATGTGAGATCACGTTCAAGGTCACCCCTACAGCTGTAGG
CCCAGGTACGACAGCTATGAAGCCTATGAGCACGAAAGGCTCAAGAGGGATGAATACCGCAAAGAGCACG
AGAAGCGGGAGTCTGAAAGGGCCAAGCAGAGAGAGAGGCGAGAAGCAGAAAGCAATTGAAGAGCGCCGTG
GATTTACGTTGGTAAAATCAGACCTGACACAACCGGACAGAATTGAGAGACCGCTTTGAAGTTTTGGT
GAAATTGAGGAATGCACCGTAAATCTGCGGGATGATGGAGACAGCTATGGTTTCATCACCTACCGTTACA
CCTGTGACGCTTTCGCTGCTCTTGAGAAATGGATATACTTTACGCAGGTGCAACGAAACTGACTTCGAGCT
GTACTTTTGGACGGAAGCAATTTTTCAAGTCTAACTATGCAGACCTAGATACAAACTCAGACGATTTT
GACCCCTGCTTCCACCAAGAGCAAGTATGACTCTCTGGATTTTGATAGTTTACTGAAGGAAGCTCAGAGAA
GCTTGGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210710 representing NM_008904
 Red=Cloning site Green=Tags(s)

MAWDMCSQDSVWSDIECAALVGEDQPLCPDLPELDLSELDVNDLDTDSFLGGLKWCSDQSEIISNQYNNE
 PANIFEKIDEENEANLLAVLTETLDSL PVDEEDGLPSFDALTDGAVTTDNEASPSSMPDGTPPPQAEEPS
 LLKLLAPANTQLSYNECSGLSTQNHAAHHTHRIRTNPAIVKTENSWSNKAKSICQQKPKRRPCSELL
 KYLTTNDPPHTKPTENRNSRDKCAKSKKSHQPSQHAQAKPTTSLPLTPESPNDPKGSPFENKTIE
 RTLVELSGTAGLTPPTPPHKANQDNPFKASPKLKPCKTVVPPPTKRARYSECSGTQGSHTKKGPEQ
 SELYAQLSKSSGLSRGHEERKTKRPSLRLFGDHYCQSLNSKTDILINISQELQDSRQLDFKDASCDWQG
 HICSSTDSGQCYLRETLEASKQVSPCSTRKQLQDQEIRAEINLKHFGHPCQAVFDDKSDKTSELRDGDFSN
 EQFSKLPVFINSGLAMDGLFDDSEDESKLSYPWDGTQPYSLFDVSPSCSSFNSPCRDVSPPKSLFSQR
 PQRMRSRSRFSRHRSCSRSPYSRSLRSPGSRSSSRSCYYYESSHYRHRTHRNSPLYVRSRSPYSCR
 PRYDSYEAAYERLKRDEYRKEHEKRESERAKQRERQKQKAIERRVIYVGKIRPDTRTELDRDFEFG
 EIEECTVNLRDDGDSYGFITYRYTDAFAALENGYTLRRSNETDFELYFCGRKQFFKSNYADLDTNSDDF
 DPASTKSKYDSLDFDSSLKKAQSLRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_008904

ORF Size: 2391 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_008904.1](#), [NM_008904.2](#), [NP_032930.1](#)

RefSeq Size: 3029 bp

RefSeq ORF: 2394 bp

Locus ID: 19017

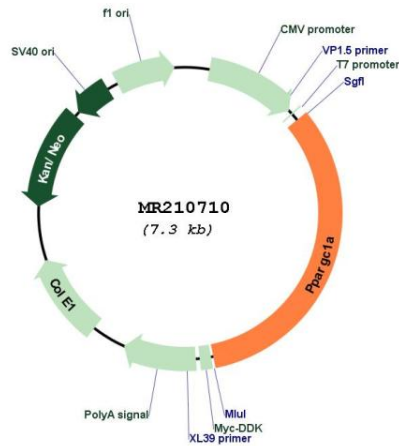
UniProt ID: [O70343](#)

Cytogenetics: 5 C1

MW: 91 kDa

Gene Summary: 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. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR210710