

## Product datasheet for **MC204780**

### **Ppargc1a (NM\_008904) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppargc1a (NM_008904) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ppargc1a
Synonyms:	A830037N07Rik; Gm11133; Pgc; PGC-1; Pgc-1alpha; Pgc1; Pgco1; PPARGC-1-alpha; Ppargc1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC066868  
 TGAAAAAGCTTGACTGGCGTCATTCTGGGAGCTGGATGGCTTGGGACATGTGCAGCCAAGACTCTGTATGG  
 AGTGACATAGAGTGTGCTGCTCTGGTTGGTGAGGACCAGCCTCTTTGCCAGATCTTCTGAACTTGACC  
 TTTCTGAACTTGATGTGAATGACTTGGATACAGACAGCTTTCTGGGTGGATTGAAGTGGTGTAGCGACCA  
 ATCGGAAATCATATCCAACCAAGTACAACAATGAGCCTGCGAACATATTTGAGAAGATAGATGAAGAGAAT  
 GAGGCAAATCTGCTAGCGGTCTCACAGAGACACTGGACAGTCTCCCCGTGGATGAAGACGGATTGCCCT  
 CATTTGATGCACAGACAGATGGAGCCGTGACCACTGACAACGAGGCCAGTCTTCTCCATGCCTGACGG  
 CACCCCTCCCCCTCAGGAGGCAGAAGAGCCGTCTCTACTTAAGAAGCTCTTACTGGCACCAGCCAACACT  
 CAGCTCAGCTACAATGAATGCAGCGGTCTTAGCACTCAGAACCATGCAGCAAACACACCCACAGGATCA  
 GAACAAACCTGCCATTGTTAAGACCGAGAATTCATGGAGCAATAAAGCGAAGAGCATTGTCAACAGCA  
 AAAGCCACAAAGACGTCCCTGCTCAGAGCTTCTCAAGTATCTGACCACAAACGATGACCCTCTCACACC  
 AAACCCACAGAAAACAGGAACAGCAGCAGAGACAAATGTGCTTCCAAAAAGAAGTCCCATACACAACCGC  
 AGTCGCAACATGCTCAAGCCAAACCAACTTTATCTCTTCTGACCCAGAGTCACCAATGACCC  
 CAAGGGTTCCTTATTTGAGAACAAGACTATTGAGCGAACCTTAAGTGTGGAACCTCTCTGGAAGTGCAGGC  
 CTAACCTCTCCCAACTCTCTCATAAAGCCAACCAAGATAACCTTTCAAGGCTTCGCAAAGCTGA  
 AGCCCTCTTGCAAGACCTGGTGCACCCGCAACCAAGAGGGCCCGGTACAGCGAGTGTCTGGTACCCA  
 AGGCAGCCACTCCACCAAGAAAGGGCCCGAGCAATCTGAGTTGTACGCACAACTCAGCAAGTCTCAGGG  
 CTCAGCCGAGGACACGAGGAAAGGAAGACTAAACGGCCAGTCTTCGGCTGTTGGTGACCATGACTATT  
 GTCAGTCACTCAATTCAAAACGGATATACTCATTAAACATATCACAGGAGCTCCAAGACTCTAGACAAC  
 AGACTTCAAAGATGCCTCCTGTGACTGGCAGGGGCACATCTGTTCTTCCACAGATTGAGGCCAGTGTAC  
 CTGAGAGAGACTTTGGAGGCCAGCAAGCAGGTCTCTCCTTGACAGCACCAGAAAACAGTCCAAGACCAGG  
 AAATCCGAGCGGAGCTGAACAAGCACTTCGGTCAATGAAACAATTCTCCAAACTACCTGTGTTATAAATTCA  
 GACCAGTGAACAAAGGATGGCGACTTCAGTAATGAACAATTCTCCAAACTACCTGTGTTATAAATTCA  
 GGACTAGCCATGGATGGCCTATTTGATGACAGTGAAGATGAAAGTGATAAACTGAGTACCCCTGGGATG  
 GCACGCAGCCCTATTCATTGTTGATGTGTGCGCTTCTGCTCTTCTTTAACTCTCCGTGTCGAGACTC  
 AGTGTACCACCGAAATCCTTATTTCTCAAAGACCCCAAAGGATGCGCTCTCGTTCAAGATCCTTTTCT  
 CGACACAGGTGTTCCCGATCACCATATTCAGGTCAAGATTAAGGTCCCAGGCAGTATCTCTT  
 CAAGATCTGTTACTACTATGAATCAAGCCACTACAGACACCGCACACCCGCAATTCCTCCTGTATGT  
 GAGATCACGTTCAAGGTCACCCTACAGCTGTAGGCCAGGTACGACAGCTATGAAGCCTATGAGCACGAA  
 AGGCTCAAGAGGGATGAATACCGCAAAGAGCACGAGAAGCGGGAGTCTGAAAGGGCCAAGCAGAGAGAGA  
 GGCAGAAGCAGAAAGCAATTGAAGAGCGCCGTGTGATTTACGTTGGTAAAATCAGACCTGACACAACCGG  
 GACAGAATTGAGAGACCGCTTTGAAGTTTTTGGTAAAATTGAGGAATGCACCGTAAATCTGCGGGATGAT  
 GGAGACAGCTATGGTTTCATCACCTACCGTTACCTGTGACGCTTTCGCTGCTCTTGAGAAATGGATATA  
 CTTTACGCAGGTGCAACGAAACTGACTTCGAGCTGACTTTTGTGGACGGAAGCAATTTTCAAGTCTAA  
 CTATGCAGACCTAGATACAAACTCAGACGATTTTGACCTGCTTCCACCAAGAGCAAGTATGACTCTCTG  
 GATTTTGTAGTTTACTGAAGGAAGCTCAGAGAAGCTTGCAGGTAACATGTTCCAGGCTGAGGAATG  
 ACAGAGAGATGGTCAATACCTCATGGGACAGCGTGTCTTTCCCAAGACTCTTGAAGTCATACTTAGGA  
 ATTTCTCCTACTTTACTCTCTGTACAAAAATAAAACAAAACAAAACAACAATAACAACAACAACAACA  
 ACAACAACAATAACAACAACAACCATACCAGAACAAGAACAACGGTTTACATGAACACAGCTGCTGAAGA  
 GGCAAGAGACAGAATGATAATCCAGTAAGCACACGTTTTATTCACGGGTGTCAGCTTTGCTTCCCTGGAG  
 GCTCTTGGTGACAGTGTGTGCGGTGTGTGTGTGGGTGTCGTGTGTATGTGTGTGTGTACTTG  
 TTTAGAAAGTACATATGTACACATGTGAGGACTTGGGGCATCTGAACAGAACGAACAAGGGCGACCCCT  
 TCAAATGGCAGCATTTCCATGAAGACACACTTAAACCTACAACCTCAAATGTTCTGATTTCTATACAAA  
 AGGAAAATAAATAAATATAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_008904  
**Insert Size:** 2394 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC066868](#), [AAH66868](#)

**RefSeq Size:** 2978 bp

**RefSeq ORF:** 2394 bp

**Locus ID:** 19017

**UniProt ID:** [O70343](#)

**Cytogenetics:** 5 C1

**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]  
 Transcript Variant: This variant (1) encodes a functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.