

Product datasheet for RN209465

Ppargc1b (NM_176075) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppargc1b (NM_176075) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ppargc1b
Synonyms:	Perc; PGC1beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209465 representing NM_176075 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATCGAGGGGAAGGAAGGGTGGGGAGTCTGGAGAGGAACAGTTATGTGCTGACTTGCCAGAGCTCGACC
TCTCCCAGCTGGATGCCAGTGACTTCGACTCAGCCACGTGCTTTGGGGAGCTGCAGTGGTCCCGGAGAC
CTCAGAGACAGAGCCCAGCCAGTACAGCCCTGATGATTCCGAGTTCTCCAGATTGACAGTGAGAATGAA
GCTCTCTGGCTGCGCTTACCAAGACCCTGGATGACATCCCCGAAGACGATGTGGGGCTGGCTGCCTTCC
CAGGACTGGATGAAGGCACACACCCTCTGCACCCAGCTTACCTGCTCCTTTATCTGTGCCCCAG
CCCCGCCTTGGAGAGGCTTCTGTCCCCAGTGTCTGAAGTGGATGAGCTTTCAGTCTGCAGAAGCTCCTC
CTGGCCACATCCTCCCCAACAGCAAGCTCTGATGCTCTGAAGGACGGGGCCACCTGGTCGAGACCAGCC
TCAGTTCAGAAGTCAGCGGCCTTGTGTCAAGGTGGATGGCACCCAGGACAAGAAGACCCCCATGTACG
GTCTCAGAGCCGGCCTTGTACAGAACTGCATAAGCACCTCACTTCGGTGTGCTGCCCTGCCCGAGGGAAA
GCCTGTTCCCACTCCCAACCAAGTCTCAGCTCCTCTCCAAAGAGGATGAGGAGGTGGGAGAGGATT
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TGCCCAAGTTCCTCAAGGACGACGTGAGGGCCATGGTACAGCTCATTGCTACATGCATACCTACTGCCTG
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CAGTCCAGAACCAGGCCCCCAAGACAGTCAAGCCTCCCTGCCACTCTGCCATGGCAGAAGAGGTGA
GAATCACTGCTTCCCCAAGAGCACTGGACCTAGACCCAGCCTCCGTCTCTGAGGCTAGAGGTGAAACG
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TTGGCTGACATCACTGATGAGCCCTAGGTGCTCTACCTCGATGTGCCTGGCTACAGAGACCCACGAC



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CTGGAAGAAGAGCTGGGCGGCCTCACAGACAGTAGTCAAGGCCAGCAGCTCCCCCTGGGATCCCAGATCC
CCACCCTGGAAAGCCCCTGTGAAAGTGGGTGTGGGGACACAGATGAAGATCCAAGCTGCCCGCGCCCCC
TTCCAGAGACTCCCCAGGTGCCTCATGCTGGCCTTGTCACAAAGTGACCCTCTTGGCAAGAAGAGCTTT
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AGCAGCTTCTGTAGAGGAGGAGGAAGAGGAGGGAGGGGAAGAGGACGATGAAGGAGAGGACTCAGGGG
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GCGCTTCGAGGTGTTTGGTGAGATGTCGAGTGCCAGGTGCTGAGGAGAAGTAAGAGAGGCCAGAAGCAC
GGTTTTATTACCTTCCGGTGTTCGGAGCATGCCGCCCTGTCCGTGAGGAACGGCGCTACCCCTGAGAAAAC
GCAATGAGCCCTCCTTCCACCTGAGCTATGGAGGGCTCCGGCACTTCCGTGGCCAGATACACCGACTA
TGATCCCACGCTGAAGAGTCCCTTCCCTCGTCTGGGAAAAGCAAGTACGAAGCCATGGATTTTGACAGC
TACTGAAAGAGGCCAGCAGAGCCTGCATTAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1488_f08.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_176075

Insert Size: 2973 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_176075.2](#), [NP_788264.1](#)

RefSeq Size: 3163 bp

RefSeq ORF: 2973 bp

Locus ID: 291567

UniProt ID: [Q811R2](#)

Cytogenetics: 18q12.1

Gene Summary: Plays a role of stimulator of transcription factors and nuclear receptors activities. Activates transcriptional activity of estrogen receptor alpha, nuclear respiratory factor 1 (NRF1) and glucocorticoid receptor in the presence of glucocorticoids. May play a role in constitutive non-adrenergic-mediated mitochondrial biogenesis as suggested by increased basal oxygen consumption and mitochondrial number when overexpressed. May be part of the pathways regulating the elevation of gluconeogenesis, beta-oxidation of fatty acids and ketogenesis during fasting. Stimulates SREBP-mediated lipogenic gene expression in the liver. Induces energy expenditure and antagonizes obesity when overexpressed. Induces also the expression of mitochondrial genes involved in oxidative metabolism. Induces the expression of PERM1 in the skeletal muscle in an ESRRA-dependent manner.[UniProtKB/Swiss-Prot Function]