

Product datasheet for **MR227473**

Pparg (NM_001127330) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pparg (NM_001127330) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pparg
Synonyms:	Nr1; Nr1c3; PPA; PPAR; Ppar-; PPAR-gamma; PPAR-gamma2; PPARGgamma; PPARGgamma2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227473 representing NM_001127330
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTGACACAGAGATGCCATTCTGGCCACCAACTTCGGAATCAGCTCTGTGGACCTCTCCGTGATGG
 AAGACCACTCGCATTCTTTGACATCAAGCCCTTTACCACAGTTGATTTCTCCAGCATTTCTGCTCCACA
 CTATGAAGACATTCCATTACAAGAGCTGACCCAAATGGTTGCTGATTACAAATATGACCTGAAGCTCCAA
 GAATACCAAAGTGCATCAAAGTAGAACCTGCATCTCCACCTTATTATTCTGAAAAGACCCAGCTTACA
 ACAGGCCCTCATGAAGAACCTTAACTCCCTCATGGCCATTGAGTGCCGAGTCTGTGGGGATAAAGCATC
 AGGCTTCCACTATGGAGTTCATGCTTGTGAAGGATGCAAGGGTTTTTCCGAAGAACCATCCGATTGAAG
 CTTATTTATGATAGGTGTGATCTTAACTGCCGGATCCACAAAAAAGTAGAAATAAATGTCAGTACTGTC
 GGTTTCAGAAGTGCCTTGTGTGGGATGTCTACAATGCCATCAGGTTTGGGCGGATGCCACAGGCCGA
 GAAGGAGAAGCTGTTGGCGGAGATCTCCAGTGATATCGACCAGCTGAACCCAGAGTCTGCTGATCTCGCA
 GCCTGGCAAAGCATTGTATGACTCATACATAAAGTCCTTCCCCTGACCAAAGCCAAGGCGAGGGCGA
 TCTTGACAGGAAAGACAACGGACAATCACCATTGTCTACGACATGAATTCCTTAATGATGGGAGA
 AGATAAAATCAAGTTCAAACATACACCCCTGCAGGAGCAGAGCAAAGAGGTGGCCATCCGAATTTTT
 CAAGGGTGCCAGTTTCGATCCGTAGAAGCCGTGCAAGAGATCACAGAGTATGCCAAAAATATCCCTGGTT
 TCATTAACCTTGATTTGAATGACCAAGTACTCTGCTCAAGTATGGTGTCCATGAGATCATCTACACGAT
 GCTGGCCTCCCTGATGAATAAAGATGGAGTCTCATCTCAGAGGGCCAAGGATTCATGACCAGGGAGTTC
 CTCAAAGCCTGCGGAAGCCCTTTGGTGACTTTATGGAGCCTAAGTTTGAGTTTGTGTGAAGTTCAATG
 CACTGGAATTAGATGACAGTACTGGCTATATTTATAGCTGTCATTATCTCAGTGGAGCCGCCAGG
 CTTGCTGAACGTGAAGCCCATCGAGGACATCCAAGACAACCTGCTGCAGGCCCTGGAACCTGCAGCTCAAG
 CTGAATACCCAGAGTCTCTCAGCTGTTCCGAAGGTGCTCCAGAAGATGACAGACCTCAGGCAGATCG
 TCACAGAGCACGTGCAGTACTGCATGTGATCAAGAAGACAGAGACAGACATGAGCCTTACCCCTGCT
 CCAGGAGATCTACAAGGACTTGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227473 representing NM_001127330
 Red=Cloning site Green=Tags(s)

MVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSISAPHYEDIPFTRADPMVADYKYDLKLQ
 EYQSAIKVEPASPPYYSEKTQLYNRPHPEPSNSLMAIECRVCGDKASGFHYGVHACEGCKGFFRRTIRLK
 LIYDRCDLNCRIHKKSRNKQYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLR
 ALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQEQSKEVAIRIF
 QGCQFRSVEAVQEITEYAKNIPGFINLDLNDQVTLKYGVEIITYMLASLMNKDGVLISEGQGFMTREF
 LKSLRKPFGDFMEPKFEFAVKFNALELDDSLAIFIAVILSGDRPGLLNVPKPIEDIQDNLQALELQLK
 LNHPESSQLFAKVLQKMTDLRQIVTEHVQLLHVIKKTETDMSLHPLLQEIKYKDLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1296_d11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001127330

ORF Size: 1425 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 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](#)

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

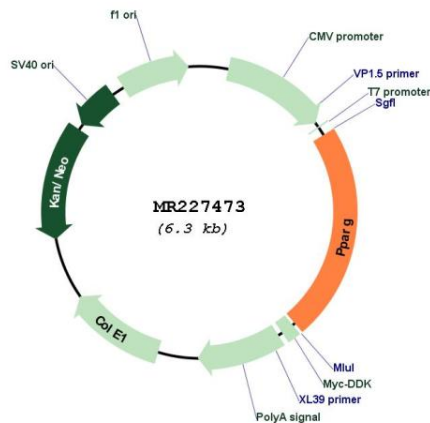
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001127330.2](#)
 RefSeq Size: 1857 bp
 RefSeq ORF: 1428 bp
 Locus ID: 19016
 UniProt ID: [P37238](#)
 Cytogenetics: 6 53.41 cM
 MW: 54.9 kDa

Gene Summary: This gene encodes a nuclear receptor protein belonging to the peroxisome proliferator-activated receptor (Ppar) family. The encoded protein is a ligand-activated transcription factor that is involved in the regulation of adipocyte differentiation and glucose homeostasis. The encoded protein forms a heterodimer with retinoid X receptors and binds to DNA motifs termed "peroxisome proliferator response elements" to either activate or inhibit gene expression. Mice lacking the encoded protein die at an embryonic stage due to severe defects in placental vascularization. When the embryos lacking this gene are supplemented with healthy placentas, the mutants survive to term, but succumb to lipodystrophy and multiple hemorrhages. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR227473