

Product datasheet for **SC124177**

PPAR gamma (PPARG) (NM_138712) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PPAR gamma (PPARG) (NM_138712) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PPAR gamma |
| Synonyms: | CIMT1; GLM1; NR1C3; PPARG1; PPARG2; PPARG5; PPARGgamma |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

>OriGene sequence for NM_138712 edited
 GGCGCCCGCGCCCGCCCGCGCGGGCCCGGCTCGGCCGACCCGGCTCCGCCGCGGGC
 AGGCGGGGCCAGCGCACTCGGAGCCCGAGCCCGAGCCGAGCTGCCGCCTGGGGCGCTT
 GGGTCGGCCTCGAGGACACCGGAGAGGGGGCCACGCCCGCTGGCCGCAGATTTGAAAG
 AAGCCAACACTAAACCACAAATATACAACAAGGCCATTTCTCAAACGAGAGTCAGCCTT
 TAACGAAATGACCATGGTTGACACAGAGATGCCATTCTGGCCACCAACTTTGGGATCAG
 CTCCGTGGATCTCTCCGTAATGGAAGACCACTCCCACTCCTTTGATATCAAGCCCTCAC
 TACTGTTGACTTCTCCAGCATTCTACTCCACATTACGAAGACATTCCATTACACAAGAAC
 AGATCCAGTGGTTGCAGATTACAAGTATGACCTGAAACTTCAAGAGTACCAAAGTGAAT
 CAAAGTGGAGCCTGCATCTCCACCTTATTATTCTGAGAAGACTCAGCTCTACAATAAGCC
 TCATGAAGAGCCTTCCAACCTCCCTCATGGCAATTGAATGTCGTGTCTGTGGAGATAAAGC
 TTCTGGATTTCACTATGGAGTTCATGCTTGTGAAGGATGCAAGGGTTTCTTCCGGAGAAC
 AATCAGATTGAAGCTTATCTATGACAGATGTGATCTTAACTGTCGGATCCACAAAAAAG
 TAGAAATAAATGTCAGTACTGTCGGTTTCAGAAATGCCTTGCAAGTGGGGATGTCTCATAA
 TGCCATCAGGTTTGGGCGGATGCCACAGGCCGAGAAGGAGAAGCTGTTGGCGGAGATCTC
 CAGTGATATCGACCAGCTGAATCCAGAGTCCGCTGACCTCCGGGCCCTGGCAAAACATTT
 GTATGACTCATACATAAAGTCTTCCCGCTGACCAAAGCAAAGGCGAGGGCGATCTTGAC
 AGGAAAGACAACAGACAAATCACCATTCTGTTATCTATGACATGAATTCCTTAATGATGGG
 AGAAGATAAAATCAAGTTCAAACACATCACCCCTGCAGGAGCAGAGCAAAGAGGTGGC
 CATCCGCATCTTTCAGGGCTGCCAGTTTCGCTCCGTGGAGGCTGTGCAGGAGATCACAGA
 GTATGCCAAAAGCATTCTGGTTTTGTAATCTTGACTTGAACGACCAAGTAACTCTCTCT
 CAAATATGGAGTCCACGAGATCATTACACAATGCTGGCTCCTTGATGAATAAAGATGG
 GTTTCTCATATCCGAGGGCCAAGCTTCATGACAAGGGAGTTTCTAAAGACCTGCGAAA
 GCCTTTTGGTGACTTTATGGAGCCCAAGTTTGTGTTGCTGTGAAGTTCAATGCATCTGGA
 ATTAGATGACAGCGACTTGGCAATATTTATTGCTGTCATTATTCTCAGTGGAGACCGCC
 AGGTTTGTGAATGTGAAGCCATTGAAGACATTCAAGACAACCTGCTACAAGCCCTGGA
 GCTCCAGCTGAAGCTGAACCACCCTGAGTCTCACAGCTGTTTGCCAAGCTGCTCCAGAA
 AATGACAGACCTCAGACAGATTGTCACGGAACACGTGCAGCTACTGCAGGTGATCAAGAA
 GACGGAGACAGACATGAGTCTTCCCGCTCCTGCAGGAGATCTACAAGGACTTGTACTA
 GCAGAGAGTCTGAGCCACTGCCAACATTTCCCTTCTTCCAGTTGCACTATTCTGAGGGA
 AAATCTGACACCTAAGAAATTTACTGTGAAAAAGCATTTTAAAAAGAAAAGGTTTTAGAA
 TATGATCTATTTATGCATATTGTTATAAAGACACATTTACAATTTACTTTTAATAT
 TAAAAATTACCATATTATGAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138712 unedited
 CCAGCATTTTGTAAATACGACTTCACTATAGGGCGGCCGATTTCGGCACCANAGCCGGCG
 CCCGCGCCGCCCCCGCGCCGGCCCGGCTCGGCCGACCCGGCTCCGCCGCGGGCAGGC
 GGGGCCAGCGCACTCGGAGCCCGAGCCCGAGCCGAGCTGCCGCCTGGGGCGCTTGGGT
 CGGCCTCGAGGACACCGGAGAGGGGGCCACGCCCGCTGGCCGAGATTTGAAAGAAGC
 CAACACTAAACCACAAATATACAACAAGGCCATTTCTCAAACGAGAGTCAGCCTTAAAC
 GAAATGACCATGGTTGACACAGAGATGCCATTCTGGCCACCAACTTTGGGATCAGCTCC
 GTGGATCTCTCCGTAATGGAAGACCACTCCCACTCCTTTGATATCAAGCCCTTCACTACT
 GTTGACTTCTCCAGCATTCTACTCCACATTACGAAGACATTCCATTACAAGAAGAGAT
 CCAGTGGTTGAGATTACAAGTATGACCTGAAACTTCAAGAGTACCAAAGTGAATCAA
 GTGGAGCCTGCATCTCCACCTTATTATTCTGAGAAGACTCAGCTCTACAATAAGCCTCAT
 GAAGAGCCTTCCAACCTCCCTCATGGCAATTGAATGTCGTGTCTGTGGAGATAAAGCTTCT
 GGATTTCACTATGGAGTTCATGCTTGTGAAGGATGCAGGGTTTCTTCCGGAGAAACATC
 AGATTGAAGCTTATCTATGACAGATGTGATCTTAACTGTCGGATCCACAAAAAAGTAGA
 AATAAATGTCAGTACTGTCGGTTTCAGAAATGCCTTGCAAGTGGGGATGTCTCATAATGCC
 ATCAGGTTTGGGGCGGATGCCACAGGCCGAGNAAGAGAAAGCTGTGGCCGGAAATCTCCA
 GTGATATCGACCAGCTGAATCCAGAGTCCGCTGACCTCCGGCCCTGGCAAACTTTGTATGA
 CTCATCATAAAGTCTTCC

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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_138712 unedited GCCGCGCCATTTGGGTGATGGCAACTTCCCAGTTTCGGNAAAGCACTGGGGCAGGGTCAC AGGGATGCCACCCGGGTCTGTTTCAGGAAAACAGCTATGACCCGCGCCGCAATCTAGAGT CGAGTTTTTTTTTTTTTTTTTTTTTTCATAATATGGTAATTTTAAATATAAAAGTAAATTG TAAATGTGTCTTTATAACAATATGCATAAAATAGATCATATTCTAAAACCTTTTCTTTT TAAAATGCTTTTTTACAGTAAATTTCTTAGGTGTCAGATTTTCCCTCAGAATAGTGCAAC TGGAAAAGGGAAATGTTGGCAGTGGCTCAGGACTCTCTGCTAGTACAAGTCCTTGTAGA TCTCCTGCAGGAGCGGGTGAAGACTCATGTCTGTCTCCGTTTTCTTGATCACCTGCAGTA GCTGCACGTGTTCCGTGACAATCTGTCTGAGGTCTGTCATTTTCTGGAGCAGCTTGGCAA ACAGCTGTGAGGACTCAGGGTGGTTCAGCTTCAGCTGGAGCTCCAGGGCTTGTAGCAGGT TGTCTTGAATGTCTTCAATGGGCTTACATTTCAGAAAACCTGGGCGGTCTCCACTGAGAA TAATGACAGCAATAAATATTGCCAAGTCGCTGTCATCTAATTCCAGTGCATTGAACCTCA CAGCAAACCTCAAACCTGGGCTCAATAAAGTGACCAAAAAGGCTTTCGCAGGCTCTTAGAA ACTCCCTTGTGATGAAGTCTGGCCCTCCGAATATGAAACCTATCTTTTTTCTTAAGGA GGCCCGCTTGGGGTAATGAATCTCGGGACTCCATATTTAAGAGAATACCTCGTCCGTTA AGTCAATATTACAAACCAGGAATGCTTTTGGCATCTGTGGTGGACCCAGCAAAACCTCG CAGAAAG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_138712 |
| Insert Size: | 2000 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 |
| 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: | <ol style="list-style-type: none"> 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_138712.2 , NP_619726.1 |
| RefSeq Size: | 1883 bp |

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|-------------------|---|
| RefSeq ORF: | 1428 bp |
| Locus ID: | 5468 |
| UniProt ID: | P37231 |
| Cytogenetics: | 3p25.2 |
| Domains: | HOLI, zf-C4 |
| Protein Families: | Druggable Genome, Nuclear Hormone Receptor, Transcription Factors |
| Protein Pathways: | Huntington's disease, Pathways in cancer, PPAR signaling pathway, Thyroid cancer |
| Gene Summary: | <p>This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) subfamily of nuclear receptors. PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. The protein encoded by this gene is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR and 5' coding region compared to variant 2. Variants 1, 3, 4, 6, and 7 all encode the same isoform (1), which has a shorter, distinct N-terminus compared to isoform 2.</p> |