

Product datasheet for **SC108192**

PPAR gamma (PPARG) (NM_138711) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR gamma (PPARG) (NM_138711) 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_138711 edited
 CAGAAGCCTGCATTTCTGCATTCTGCTTAATTCCTTTTCTTAGATTTGAAAAGAAGCCAA
 CACTAAACCACAAATATACAACAAGGCCATTTCTCAAACGAGAGTCAGCCTTTAACGAA
 ATGACCATGGTTGACACAGAGATGCCATTCTGGCCACCAACTTTGGGATCAGCTCCGTG
 GATCTCTCCGTAATGGAAGACCACTCCCACTCCTTTGATATCAAGCCCTTCACTACTGTT
 GACTTCTCCAGCATTTCTACTCCACATTACGAAGACATTCCATTACACAAGAACAGATCCA
 GTGGTTGCAGATTACAAGTATGACCTGAAACTTCAAGAGTACCAAGTGCATCAAAGTG
 GAGCCTGCATCTCCACCTTATTATTCTGAGAAGACTCAGCTCTACAATAAGCCTCATGAA
 GAGCCTTCCAACCTCCCTCATGGCAATTGAATGTCGTGTCTGTGGAGATAAAGCTTCTGGA
 TTTCACTATGGAGTTCATGCTTGTGAAGGATGCAAGGGTTTCTCCGGAGAACAATCAGA
 TTGAAGCTTATCTATGACAGATGTGATCTTAACTGTCGGATCCACAAAAAAGTAGAAAT
 AAATGTCAGTACTGTCGGTTTCAGAAATGCCTTGCAGTGGGGATGTCTCATAATGCCATC
 AGGTTTGGGCGGATGCCACAGGCCGAGAAGGAGAAGCTGTTGGCGGAGATCTCCAGTGAT
 ATCGACCAGCTGAATCCAGAGTCCGCTGACCTCCGGGCCCTGGCAAAACATTTGTATGAC
 TCATACATAAAGTCTTCCCGCTGACCAAAAGCAAAGCGAGGGCGATCTTGACAGGAAAG
 ACAACAGACAAATCACCATTTCGTTATCTATGACATGAATTCCTTAATGATGGGAGAAGAT
 AAAATCAAGTTCAAACACATCACCCCTGCAGGAGCAGAGCAAAGAGGTGGCCATCCGC
 ATCTTTCAGGGCTGCCAGTTTCGCTCCGTGGAGGCTGTGCAGGAGATCACAGAGTATGCC
 AAAAGCATTCTGGTTTTGTAATCTTGACTTGAACGACCAAGTAACTCTCCTCAAATAT
 GGAGTCCACGAGATCATTTACACAATGCTGGCCTCCTTGATGAATAAAGATGGGGTTCTC
 ATATCCGAGGGCCAAGGCTTTCATGACAAGGAGTTTCTAAAGAGCCTGCGAAAGCCTTTT
 GGTGACTTTATGGAGCCCAAGTTTGAAGTTTGTGAGTTTCAATGCACTGGAATTAGAT
 GACAGCGACTTGGCAATATTTATTGCTGTCATTATTCTCAGTGGAGACCGCCAGGTTTG
 CTGAATGTGAAGCCATTGAAGACATTCAAGACAACCTGTACAAGCCCTGGAGCTCCAG
 CTGAAGCTGAACCACCCTGAGTCTCACAGCTGTTTGCCAAGCTGCTCCAGAAAATGACA
 GACCTCAGACAGATTGTACGGAACACGTGCAGCTACTGCAGGTGATCAAGAAGACGGAG
 ACAGACATGAGTCTTACCCGCTCCTGCAGGAGATCTACAAGACTTGTACTAGCAGAGA
 GTCCTGAGCCACTGCCAACATTTCCCTTCTCCAGTTGCACTATTCTGAGGGAAAATCTG
 ACACCTAAGAAAATTTACTGTGAAAAAGCATTAAAAAAGAAAAGTTTTAGAATATGATC
 TATTTTATGCATATTGTTTATAAAGACACATTTACAATTTACTTTAATATTAATAATTA
 CCATATTATGAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_138711 unedited
 CCATATGTATACGACTCACTTATAGGGCGGCCGATTCCGGCACGAGCAGAAGCCTGCAT
 TTCTGCATTCTGCTTAATTCCTTTCTTAGATTTGAAAAGAAGCCAACACTAAACCACAA
 ATATAACAAGGCCATTTCTCAAACGAGAGTCAGCCTTTAACGAAATGACCATGGTTG
 ACACAGAGATGCCATTCTGGCCACCAACTTTGGGATCAGCTCCGTGGATCTCTCCGTAA
 TGAAGACCACTCCCACTCCTTTGATATCAAGCCCTTCACTACTGTTGACTTCTCCAGCA
 TTTCTACTCCACATTACGAAGACATTCCATTACACAAGAACAGATCCAGTGGTTGCAGATT
 ACAAGTATGACCTGAACTTCAAGAGTACCAAAGTGAATCAAAGTGGAGCCTGCATCTC
 CACCTTATTATTCTGAGAAGACTCAGCTCTACAATAAGCCTCATGAAGAGCCTTCCAAC
 CCCTCATGGCAATTGAATGTCGTGTCTGTGGAGATAAAGCTTCTGGATTTCACTATGGAG
 TTCATGCTTGTGAAGGATGCAAGGGTTTCTCCGGAGAACAATCAGATTGAAGCTTATCT
 ATGACAGATGTGATCTTAACTGTCGGATCCACAAAAAAGTAGAAATAAATGTCAGTACT
 GTCGGTTTCAGAAATGCCTTGCAGTGNNGATGTCTCATAATGCCATCAGGTTTGGGCGGA
 TGCCACAGGCCGAGAAGGAGAAGCTGTTGGCGGAGATCTCCAGTATATCGACCAGCTGA
 ATCCAGAGTCCGCTGACCTCCGGGCCCTGGCAACATTNGTATGACTCATACATAAAGTC
 CTTCCCGCTGACCAAGCANAGGCGAGGNCATCTTGACAGGAANNACAGACAAATCA
 CCATTCGTTATCTATGACATGAANNCTTATGATGGNAGAAGATANAATCAAGTTCAAC
 ACTCACCCCTGCAGGAGCAGACCAAGAGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_138711 unedited ATCTNTGNNACCGCGCCGAATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTCATAAT ATGGTAATTTTTAATATTAAGTAAATGTAAATGTGTCTTTATAAACAATATGCATAA AATAGATCATATTCTAAAACCTTTCTTTTTAAAATGCTTTTTACAGTAAATTTCTTAG GTGTCAGATTTTCCCTCAGAATAGTCAACTGGAAGAAGGAAATGTTGGCAGTGGCTCA GGACTCTCTGCTAGTACAAGTCCTTGATAGATCTCCTGCAGGAGCGGGTGAAGACTCATGT CTGTCTCCGTCTTCTTGATCACCTGCAGTAGCTGCACGTGTTCCGTGACAATCTGTCTGA GGTCTGTCAATTTCTGGAGCAGCTTGGCAAACAGCTGTGAGGACTCAGGGTGGTTCAGCT TCAGCTGGAGCTCCAGGGCTTGTAGCAGTTGTCTTGAATGTCTTCAATGGGCTTCACAT TCAGCAAACCTGGGCGGTCTCCACTGAGAATAATGACAGCAATAAATATTGCCAAGTCGC TGTCTAATCCAGTGCATTGAACTTACAGCAAACCTCAAACCTGGGCTNCATAAAGT CACCAAAGGCTTTCGAGGCTCTTTAGAACTCCCTTGTCTGAAGCCTTGGCCCTCGG ATATGAGAACCCATCTTTATTCATCAAGGAGGCCAGCATTGTGTAATGATCCCGTGG CTCCATATTTGAGGAGAGTACTTGGGCGTTCAAGTCAGGATTACAAAACAGGATGCT TTTNGCATACTCTGTGAACCTCTGCCAGCCTCCCGGAGCGAACTGCAGCCCTGAAGAT GCGGATGGCCACCTTTTGTCTGTCTGTCAGGGGTGATGTGTTNGAACCTTGATTTTCC TCTCCATCCTTAGGGAATCATGGCAAGATACCAAGGGGATTTGCCTGGTGGCTTCTGGC AAGACCGCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_138711
Insert Size:	1800 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_138711.2</u> , <u>NP_619725.1</u>
RefSeq Size:	1920 bp
RefSeq ORF:	1919 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 (3) 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>