

Product datasheet for **SC308984**

PPAR alpha (PPARA) (NM_005036) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR alpha (PPARA) (NM_005036) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPAR alpha
Synonyms:	hPPAR; NR1C1; PPAR; PPAR-alpha; PPARalpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005036 edited
 ATGGTGGACACGAAAGCCCACTCTGCCCCCTCTCCCACTCGAGGCCGGGATCTAGAG
 AGCCCGTTATCTGAAGATTCTGCAAGAAATGGGAAACATCCAAGAGATTTTCGCAATCC
 ATCGGCGAGGATAGTTCTGGAAGCTTTGGCTTTACGGAATACCAGTATTTAGGAAGCTGT
 CCTGGCTCAGATGGCTCGGTCATCACGGACACGCTTTCACCAGCTTCGAGCCCTCCTCG
 GTGACTTATCCTGTGGTCCCGGACGCTGGACGAGTCTCCAGTGGAGCATTGAACATC
 GAATGTAGAATCTGCGGGGACAAGGCCCTCAGGCTATCATTACGGAGTCCACGCGTGTGAA
 GGCTGCAAGGGCTTTCTTCGGCGAACGATTCGACTCAAGCTGGTGTATGACAAGTGCAC
 CGCAGCTGCAAGATCCAGAAAAAGAACAGAAACAAATGCCAGTATTGTCGATTTACAAG
 TGCCTTTCTGTCGGGATGTCACACAACGCGATTGTTTTGGACGAATGCCAAGATCTGAG
 AAAGCAAACTGAAAGCAGAAATTTCTTACCTGTGAACATGACATAGAAGATTCTGAACT
 GCAGATCTCAAACTCTCTGGCCAAGAGAATCTACGAGGCCACTTGAAGAACTTCAACATG
 AACAAAGTCAAAGCCCGGTCATCCTCTCAGGAAAGGCCAGTAACAATCCACCTTTTGTG
 ATACATGATATGGAGACTGTGTATGGCTGAGAAGACGCTGGTGGCCAAGCTGGTGGCC
 AATGGCATCCAGAACAAGGAGGCCGAGGTCGCGATCTTTCACTGTGCCAGTGCACGTCA
 GTGGAGACCGTCACGGAGCTCACGGAATTCGCCAAGGCCATCCCAGGCTTCGCAAACTTG
 GACCTGAACGATCAAGTGACATTGCTAAAATACGGAGTTTATGAGGCCATATTCGCCATG
 CTGTCTTCTGTGATGAACAAAGACGGGATGCTGGTAGCGTATGGAATGGGTTTATAACT
 CGTGAATTCCTAAAAAGCCTAAGGAAACCGTTCTGTGATATCATGGAACCAAGTTTGAT
 TTTGCCATGAAGTTCAATGCACTGGAACCTGGATGACAGTGATATCTCCCTTTTTGTGGCT
 GCTATCATTTGTGTGGAGATCGTCCTGGCCTTCTAAACGTAGGACACATTGAAAAAATG
 CAGGAGGGTATTGTACATGTGCTCAGACTCCACCTGCAGAGCAACCACCCGGACGATATC
 TTTCTTCCCAAACTTCTTCAAAAAATGGCAGACCTCCGGCAGCTGGTACGGAGCAT
 GCGCAGCTGGTGCAGATCATCAAGAAAGACGGAGTCGGATGCTGCGCTGCACCCGCTACTG
 CAGGAGATCTACAGGGACATGTACTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005036 unedited NCCCGTTCAAATTTTGTATACGACTCACTAAAGGCGGCCGCAATATCGCACGAAGAGCA GATTCAGTGTATGTGAAGACGTGCTTCCTTGCTTCATAGATAAGAGTGCCACACCCCC TGTCACAGTGCCTGGGCTGTGGATCCCTTCAAAGCTGAGATTGCCTGTCTGTGGTCTC CAGCGTTAAGCACAGTCATTAGCTCAGCTTGGAGCTCGGCGGCACAACCAGCACCATCTG ATCTAGAGAGCCCGTTATCTGAAGAGTTCTGCAAGAAATGGGAACATCCAAGAGATTT CGCAATCCATCGGCAAGGATAGTTCTGGAAGCTTTGGCTTTACGGAATACCAAGTATTAG GAAAGCTGTCTGGTNCAGATGGGCTCGGTTCATCACGGACACGCTTTACCAGCTTCGAG CCCTCCCTCGGTGACTATNCTTGTGGTCCCGGCAGCGTGGACGAGTCTCCAGTGGAGC ATTGAACATCGAATGTAGAATCTGCGGGGACAAGGCCCTCAGGCTATCATTAAACGGAGTCC ACGCGTGGTGAAGGCTGCAAGGGCCTTCTTTGCGCAACGATTGACTCAGCCTGNNGT ATGAACAAGTGCACCGCAGCTGGCAGATCCAGAAAAAGAACAGAACANATGCCAATTA TGGGNGCATTTCACAGTGCCTTTTTGGGGGGGGGATGTCACACACCCAAATTTTTTT TTTGAACGATGCCCCAAATTTTGAAGAAAGCCAACTGAAAGCAGAAATCTTTACCTG TGACATGAATATTNAAAGATTCTGGACCTGCAGATCTAAAAATCTCTGCCA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005036 unedited ATGGGGTAATTCGTTAAGTACACCGATCNAGNGAANNNGAAGCNANGCGGAAGCANGNG ATATAAGATGATGAAAAAAACTCTGGTAAAGCAATATACGAATAAGTCTGATATAAGT GGGACTACTGAGTGTCCACCGGAGAATTTTTATAATTTTGTGACAGACAGGGTATTG CTAGCCGCTATGATGATTTGAAGGATGGGCTAAGTATGGGGCCATCTTGGCCTCCAAA AGTGCTGGGATTACATGTGTGAGCCAGTGTGCCTAGGCTGATTACAAAAACAAAACGGA ATAAATTTGTAATTTTTAAAAAAGGATGTTCTAACCATAAAGTTTCACTTTTTTCTAGTGG AAGTTTACACTGTGTCCTTACAACCTAATATTTTTATAATGCTGGTCTATGGGACCGTT ATAAATCCTAAAGATTGTTAAAAATAAATGACGTGAGAAGAGACAAATTTTATAAAGAT GAGGGGAGAGGAATTAAGATACTTTGAGGTGCAGAGAGATTCCCTGGAGGAGGAGGTCC GGGGAGTTCAGAGCAGGATCTAAAAAGGTTTAAAGAGGAAAGTTTATATACACAGAGGAC CAAGAGAGAAAGTGGTATAAGGTGAATAGTTTTCTTGACAAAATAGGATAATAAAGGGTG ACTTCCCAACTGGGACAGAAGGGGTAAAGTTGGGTTTGAAGGCTAAAAAAAAGTTCACA TTTTGTAAAAACTCGCTCACCACCAAGGAGACTAAAAACCTAAACCCTGAAAAAAA CCCAAACTCGGGAAATGTGAAATATAAAGAAAACAGCCAGTGAAGAAAATCGGCCCC TCCCCGCCCCCGCCCCACGCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005036
Insert Size:	4200 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_005036.4](#), [NP_005027.2](#)

RefSeq Size: 10049 bp

RefSeq ORF: 1407 bp

Locus ID: 5465

UniProt ID: [Q07869](#)

Cytogenetics: 22q13.31

Domains: HOLI, zf-C4

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Adipocytokine signaling pathway, PPAR signaling pathway

Gene Summary: Peroxisome proliferators include hypolipidemic drugs, herbicides, leukotriene antagonists, and plasticizers; this term arises because they induce an increase in the size and number of peroxisomes. Peroxisomes are subcellular organelles found in plants and animals that contain enzymes for respiration and for cholesterol and lipid metabolism. The action of peroxisome proliferators is thought to be mediated via specific receptors, called PPARs, which belong to the steroid hormone receptor superfamily. PPARs affect the expression of target genes involved in cell proliferation, cell differentiation and in immune and inflammation responses. Three closely related subtypes (alpha, beta/delta, and gamma) have been identified. This gene encodes the subtype PPAR-alpha, which is a nuclear transcription factor. Multiple alternatively spliced transcript variants have been described for this gene, although the full-length nature of only two has been determined. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (5) represents the longer transcript. Variants 3 and 5 encode the same protein.