

Product datasheet for **SC123806**

PPAR alpha (PPARA) (NM_032644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR alpha (PPARA) (NM_032644) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPAR alpha
Synonyms:	PPAR, NR1C1, hPPAR, MGC2237, MGC2452
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032644 unedited CCATGGGGCCATTGGGNGATGTGCAACTTCCCAGGNCCAGNANAGCACTGGGGNAGGGTC ACAGGGCATGCCACCCGGGTATCTGTTCAGGAAAACAGCTATGACCGCGGCCGAATCTA GAGTCGAGTTTTTTTTTTTTTTTTTTTTAAATCCAGTTAATGCTGGGTGCCATGACTCAC ACCTGTAATGCCAGTGCTTTGGGAGGCCGAGGTGGGAAGATCACTTGAGGCCAGGAGTTT GAGACCAGCCTGGGAAACATCTTATCTCTACCAAAAAACAAAAACAAAAACAAACCA CAACATCAAACATAGCCAGGTGTGTGGTGCACACCTGTAGTCCCAGCTCCTTGGGAGGC TGAGGCAGGAGGATTGCTTGAGCCAGGAGTTCAAGGCTGCAGTGAAGTATGATTGCACC ACTGCATTCCAGCCTGGGCAACAGAGCAAGAACCTATCTCTATTTAAGAAAAATGCTCC TAAGAAATCATCTTAGTACTTGGTAAGCTATTAAGTTTTTTTTAAGGTATTAATTACA TAGCCAGTATAATAACTTAGTTGCTAAGAGCTTTGAGGTGGCTCCAAGCAAGAAGAAAGG AGTTGTTGTTAAGCTACAGCTCAGAGTCTCAGAATGAAGTGTTCATCTTCGCTGCCT TTGCTTAAGTGTGGATAAATAATTTCTCAACATTCAACACATGTGCCTTAATCGT CCTCTACGACACTGGTTCATGTTGCCAAGAGAACCCAGNAAAGCCGCAACACCTACTG GATTGNTACTGGCCTTCTGAGAGGATGACCCGGGCTTTGACCTTGTTTCATGTTGGAAT TCTTCAAGTAGGCCTCGTAGATTTCTTTGGCCAGAGATTTGAGATCTGCAGTTAGAATT TTCTATG
Restriction Sites:	Please inquire
ACCN:	NM_032644
Insert Size:	1580 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:	<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_032644.3 , NP_116033.2
RefSeq Size:	3370 bp
RefSeq ORF:	777 bp
Locus ID:	5465
Cytogenetics:	22q13.31
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 (7) differs in the 5' UTR and continues past a splice site in the 3' coding region which results in an early stop codon, compared to variant 6. The resulting isoform (2) has a distinct and shorter C-terminus when compared to isoform 1.