

## Product datasheet for RC216176L3

#### OriGene Technologies, Inc.

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# PPAR alpha (PPARA) (NM\_005036) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** PPAR alpha (PPARA) (NM\_005036) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: PPAR alpha

**Synonyms:** hPPAR; NR1C1; PPAR; PPAR-alpha; PPARalpha

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

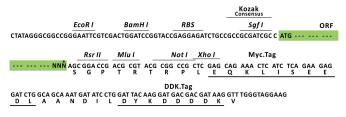
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC216176).

Sequence:

Restriction Sites: Sgfl-Rsrll

**Cloning Scheme:** 





st The last codon before the Stop codon of the ORF.

**ACCN:** NM\_005036

ORF Size: 1404 bp





### PPAR alpha (PPARA) (NM\_005036) Human Tagged Lenti ORF Clone - RC216176L3

**OTI Disclaimer:** 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:** <u>NM 005036.4</u>

RefSeq Size:10049 bpRefSeq ORF:1407 bp

**Locus ID:** 5465

 UniProt ID:
 Q07869

 Cytogenetics:
 22q13.31

**Domains:** HOLl, zf-C4

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

**Protein Pathways:** Adipocytokine signaling pathway, PPAR signaling pathway

**MW:** 52 kDa

**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]