

Product datasheet for **RC216176**

PPAR alpha (PPARA) (NM_005036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR alpha (PPARA) (NM_005036) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPAR alpha
Synonyms:	hPPAR; NR1C1; PPAR; PPAR-alpha; PPARalpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216176 representing NM_005036
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGACACGAAAGCCCACTCTGCCCTCTCCCACTCGAGCCGCGGATCTAGAGAGCCCGTTAT
 CTGAAGAGTTCCTGCAAGAAATGGGAAACATCCAAGAGATTTGCAATCCATCGGCGAGGATAGTTCTGG
 AAGCTTTGGCTTTACGGAATACCAGTATTTAGGAAGCTGTCTGGCTCAGATGGCTCGGTCATCACGGAC
 ACGCTTTCACCAGCTTCGAGCCCCTCTCGGTGACTTATCCTGTGGTCCCGGCAGCGTGGACGAGTCTC
 CCAGTGGAGCATTGAACATCGAATGTAGAATCTGCGGGGACAAGGCCCTCAGGCTATCATTACGGAGTCCA
 CGCGTGTGAAGGCTGCAAGGGCTTCTTTGCGGCAACGATTCGACTCAAGCTGGTGTATGACAAGTGCAC
 CGCAGCTGCAAGATCCAGAAAAAGAACAGAAACAATGCCAGTATTGTCGATTTTACAAGTGCCTTTCTG
 TCGGGATGTCACACAACGCGATTGTTTTGGACGAATGCCAAGATCTGAGAAAGCAAACTGAAAGCAGA
 AATTCTTACCTGTGAACATGACATAGAAGATTCTGAAACTGCAGATCTCAAATCTCTGGCCAAGAGAATC
 TACGAGGCTACTTGAAGAACTCAACATGAACAAGGTCAAAGCCCGGGTCATCCTCTCAGAAAAGGCCA
 GTAACAATCCACCTTTTGTACATACATGATATGGAGACTGTGTATGGCTGAGAAGACGCTGGTGGCCAA
 GCTGGTGGCCAATGGCATCCAGAACAAGGAGGCGGAGGTCGCGATCTTCTACTGCTGCCAGTGCACGTCA
 GTGGAGACCGTACCGGAGCTCACGGAATTCGCCAAGGCCATCCCAGGCTTCGAAACTTGGACCTGAACG
 ATCAAGTGACATTGCTAAAAACGGAGTTTATGAGGCCATATTCGCCATGCTGTCTTCTGTGATGAACAA
 AGACGGGATGCTGGTAGCGTATGGAAATGGGTTTATAACTCGTGAATTCCTAAAAAGCCTAAGGAAACCG
 TTCTGTGATATCATGGAACCAAGTTTGATTTTGCCATGAAGTTCAATGCACTGGAAGTGGATGACAGTG
 ATATCTCCCTTTTGTGGCTGTATCATTGCTGTGGAGATCGTCTGGCCTTCTAAACGTAGGACACAT
 TGAAAAAATGCAGGAGGGTATTGTACATGTGCTCAGACTCCACCTGCAGAGCAACCACCCGGACGATATC
 TTTCTCTCCAAAACCTTCTCAAAAAATGGCAGACCTCCGCGAGCTGGTACGGAGCATGCGCAGCTGG
 TGCAGATCATCAAGAAGACGGAGTCGGATGCTGCGCTGCACCCGCTACTGCAGGAGATCTACAGGGACAT
 GTAC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216176 representing NM_005036
 Red=Cloning site Green=Tags(s)

MVDTESPLCPLSPLEAGDLESPLSEEFLEQEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCPGSDGSVITD
 TLSPASSPSSVTYPVPGSVDESPPSALNIECRICGDKASGYHYGVHACEGCKGFFRRTIRLKLVDKCD
 RSCKIQKKNRNCQYCRFHKCLSVGMSHNAIRFGRMPRSEKAKLKAELTCEHDIEDSETADLKLAKRI
 YEAYLKNFNMNKVKARVILSGKASNNPPFVIHDMETLCMAEKTIVAKLVANGIQNKEAEVRFHCCQCTS
 VETVTELETEFAKAIPIGFANLDLNDQVTLTKYGVYEAIFAMLSVMNKDGMLVAYGNGFITREFLKSRLPK
 FCDIMEPKFDFAMKFNALDSDISLFAAIIICGDRPGLLNVGHIKMQEGIVHVLRLHLQSNHPDDI
 FLFPKLLQKMDLRQLVTEHAQLVQIIKKTESDAALHPLLQEIYRDMY

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDK**V**

Chromatograms:

https://cdn.origene.com/chromatograms/mk6187_d11.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_005036

ORF Size: 1404 bp

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: [NM_005036.6](#)

RefSeq Size: 10049 bp

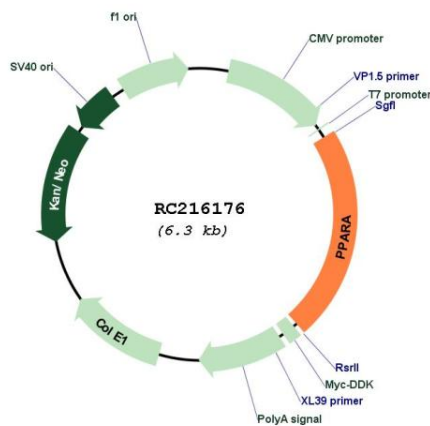
RefSeq ORF: 1407 bp

Locus ID: 5465

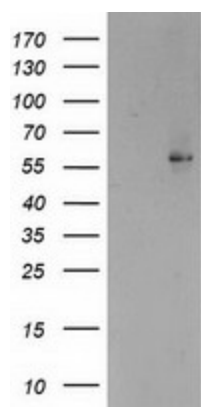
UniProt ID: [Q07869](#)

Cytogenetics: 22q13.31

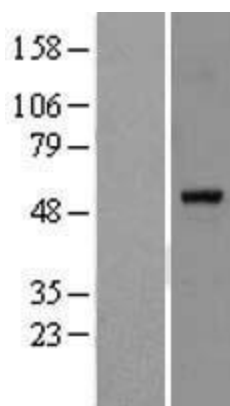
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway, PPAR signaling pathway
MW:	52 kDa
Gene Summary:	Peroxisome proliferators include hypolipidemic drugs, herbicides, leukotriene antagonists, and plasticizers; 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]

Product images:


Circular map for RC216176



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PPARA (Cat# RC216176, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PPARA (Cat# [TA503540]). Positive lysates [LY401560] (100ug) and [LC401560] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424279]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC216237] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).