

Product datasheet for **RG212181**

PPAR gamma (PPARG) (NM_138711) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR gamma (PPARG) (NM_138711) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPAR gamma
Synonyms:	CIMT1; GLM1; NR1C3; PPARG1; PPARG2; PPARG5; PPARGgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG212181 representing NM_138711
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATGGTTGACACAGAGATGCCATTCTGGCCACCAACTTTGGGATCAGCTCCGTGGATCTCTCCG
 TAATGGAAGACCACTCCCACTCCTTTGATCAAGCCCTCACTACTGTTGACTTCTCCAGCATTCTAC
 TCCACATTACGAAGACATTCCATTCAACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTGAAA
 CTTCAAGAGTACCAAAGTGAATCAAAGTGGAGCCTGCATCTCCACCTATTATTCTGAGAAGACTCAGC
 TCTACAATAAGCCTCATGAAGAGCCTTCCAACCTCATGGCAATTGAATGTCGTGTCTGTGGAGATAA
 AGCTTCTGGATTTCACTATGGAGTTCATGCTTGTGAAGGATGCAAGGGTTTCTCCGGAGAACAATCAGA
 TTGAAGCTTATCTATGACAGATGTGATCTTAAGTGTGGATCCACAAAAAAGTAGAAATAAATGTCAGT
 ACTGTCGGTTTCAGAAAATGCCTTGCAGTGGGATGTCTCATAATGCCATCAGTTTGGCGGATGCCACA
 GGCCGAGAAGGAGAAGCTTTGGCGGAGATCTCCAGTGATATCGACCAGCTGAATCCAGAGTCCGCTGAC
 TCCCGGGCCCTGGCAAAACATTTGTATGACTCATACATAAAGTCCTTCCCGCTGACCAAAAGCAAAGGCGA
 GGGCGATCTTGACAGAAAGACAACAGACAAATACCATTTCGTTATCTATGACATGAATTCCTTAATGAT
 GGGAGAAGATAAAATCAAGTTCAAACACATCACCCCTGCAGGAGCAGAGCAAAGAGGTGGCCATCCGC
 ATCTTTAGGGCTGCCAGTTTCGCTCCGTGGAGGCTGTGCAGGAGATCACAGAGTATGCCAAAAGCATT
 CTGGTTTTGTAATCTTGACTTGAACGACCAAGTAACTCTCTCAAATATGGAGTCCACGAGATCATTTA
 CACAATGCTGGCTCCTTGATGAATAAAGATGGGTTCTCATATCCGAGGGCCAAGGCTTCATGACAAGG
 GAGTTTCTAAAGAGCCTGCGAAAGCCTTTGGTGACTTTATGGAGCCCAAGTTTGAGTTTGTGTGAAGT
 TCAATGCACCTGGAATTAGATGACAGCGACTTGGCAATATTTATTGCTGTCAATTCTCAGTGGAGACCG
 CCCAGGTTTGTGAATGTGAAGCCATTGAAGACATTCAAGACAACCTGCTACAAGCCCTGGAGCTCCAG
 CTGAAGCTGAACCACCCTGAGTCTCACAGCTGTTTGCCAAGCTGCTCCAGAAAATGACAGACCTCAGAC
 AGATTGTCACGGAACACGTGCAGCTACTGCAGGTGATCAAGAAGACGGAGACAGACATGAGTCTTACCC
 GCTCCTGCAGGAGATCTACAAGGACTTGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

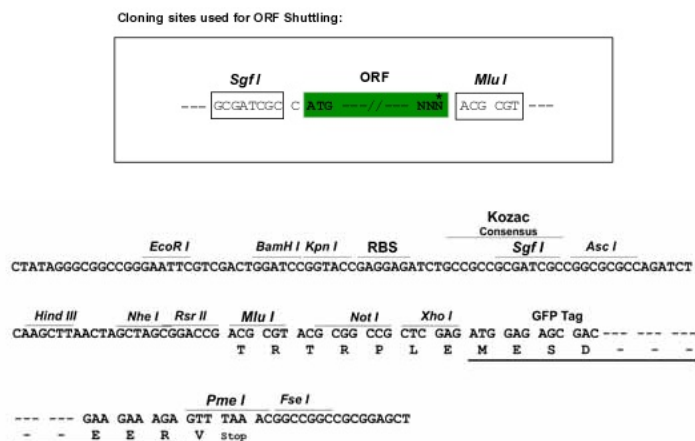
>RG212181 representing NM_138711
 Red=Cloning site Green=Tags(s)

MTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSISTPHYEDIPFTRTDPVVADYKYDLK
 LQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCGDKASGFHYGVHACEGCKGFFRRTIR
 LKLIYDRCDLNCRIHKKSRNKCYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESAD
 LRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQEQSKEVAIR
 IFQGCQFRSVEAVQEITEYAKSIPGFVNLDLNDQVTLKYGVHEIITYMLASLMNKDGVLISEGQGFMT
 EFLKSLRKPFGDFMEPKFEFAVKFNALELDDSLAIFIAVIIISGDRPGLLNVPKPIEDIQDNLLQALELQ
 LKLNHPRESSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSLHPLLQEIKDLY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_138711

ORF Size: 1431 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_138711.4](#)

RefSeq Size: 1919 bp

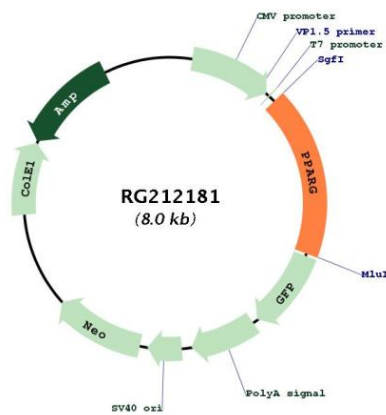
RefSeq ORF: 1428 bp

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:	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]

Product images:



Circular map for RG212181