

## Product datasheet for **RG201538**

### PPAR gamma (PPARG) (NM\_138712) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR gamma (PPARG) (NM_138712) 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)



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**ORF Nucleotide Sequence:**

>RG201538 representing NM\_138712  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCATGGTTGACACAGAGATGCCATTCTGGCCACCAACTTTGGGATCAGCTCCGTGGATCTCTCCG  
 TAATGGAAGACCACTCCCACTCCTTTGATCAAGCCCTCACTACTGTTGACTTCTCCAGCATTCTAC  
 TCCACATTACGAAGACATTCCATTCAACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTGAAA  
 CTTCAAGAGTACCAAAGTGAATCAAAGTGAGCCTGCATCTCCACCTATTATTCTGAGAAGACTCAGC  
 TCTACAATAAGCCTCATGAAGAGCCTTCCAACCTCATGGCAATTGAATGTCGTGTCTGTGGAGATAA  
 AGCTTCTGGATTTCACTATGGAGTTCATGCTTGTGAAGGATGCAAGGGTTTCTCCGGAGAACAATCAGA  
 TTGAAGCTTATCTATGACAGATGTGATCTTAAGTGTGGATCCACAAAAAAGTAGAAATAAATGTCAGT  
 ACTGTCGGTTTCAGAAAATGCCTGCAGTGGGATGTCTCATAATGCCATCAGGTTTGGCGGATGCCACA  
 GGCCGAGAAGGAGAAGCTGTTGGCGGAGATCTCCAGTGATATCGACCAGCTGAATCCAGAGTCCGCTGAC  
 TCCCGGGCCCTGGCAAAACATTTGTATGACTCATACATAAAGTCCTTCCGCTGACCAAAAGCAAAGGCGA  
 GGGCGATCTTGACAGAAAGACAACAGACAAATACCATTTCGTTATCTATGACATGAATTCCTTAATGAT  
 GGGAGAAGATAAAATCAAGTTCAAACACATCACCCCTGCAGGAGCAGAGCAAAGAGGTGGCCATCCGC  
 ATCTTTAGGGCTGCCAGTTTCGCTCCGTGGAGGCTGTGCAGGAGATCACAGAGTATGCCAAAAGCATT  
 CTGGTTTTGTAATCTTGACTTGAACGACCAAGTAACTCTCTCAAATATGGAGTCCACGAGATCATTTA  
 CACAATGCTGGCTCCTTGATGAATAAAGATGGGTTCTCATATCCGAGGGCCAAGGCTTCATGACAAGG  
 GAGTTTCTAAAGAGCCTGCGAAAGCCTTTGGTGACTTTATGGAGCCCAAGTTTGAGTTTGTGTGAAGT  
 TCAATGCACCTGGAATTAGATGACAGCGACTTGGCAATATTTATTGCTGTCAATTCTCAGTGGAGACCG  
 CCCAGGTTTGTGAATGTGAAGCCATTGAAGACATTCAAGACAACCTGTACAAGCCCTGGAGCTCCAG  
 CTGAAGCTGAACCACCCTGAGTCTCACAGCTGTTTGCCAAGCTGCTCCAGAAAATGACAGACCTCAGAC  
 AGATTGTCACGGAACACGTGCAGCTACTGCAGGTGATCAAGAAGACGGAGACAGACATGAGTCTTACCC  
 GCTCCTGCAGGAGATCTACAAGGACTTGTAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG201538 representing NM\_138712  
 Red=Cloning site Green=Tags(s)

MTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSISTPHYEDIPFTRTDPVVADYKYDLK  
 LQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCGDKASGFHYGVHACEGCKGFFRRTIR  
 LKLIYDRCDLNCRIHKKSRNKCYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESAD  
 LRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQEQSKEVAIR  
 IFQGCQFRSVEAVQEITEYAKSIPGFVNLDLNDQVTLKYGVHEIYTMLASLMNKDGVLISEGQGFMT  
 EFLKSLRKPFGDFMEPKFEFAVKFNALELDDSLAIFIAVIIISGDRPGLLNVPKPIEDIQDNLLQALELQ  
 LKLNHPRESSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSLHPLLQEIYKDL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_138712

ORF Size: 1431 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

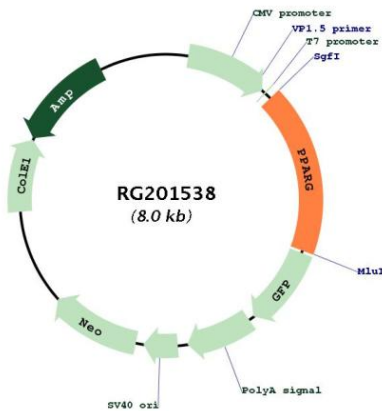
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_138712.4](#)  
**RefSeq Size:** 1892 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 RG201538