

## Product datasheet for **RG214735**

### PPAR delta (PPARD) (NM\_006238) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR delta (PPARD) (NM_006238) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPAR delta
Synonyms:	FAAR; NR1C2; NUC1; NUCI; NUCII; PPARB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214735 representing NM_006238 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCAGCCACAGGAGGAAGCCCTGAGGTCCGGGAAGAGGAGGAGAAAGAGGAAGTGGCAGAGGCAG  
AAGGAGCCCCAGAGCTCAATGGGGGACCACAGCATGCACCTTCTCCAGCAGCTACACAGACCTCTCCCG  
GAGCTCCTCGCCACCCTCACTGCTGGACCAACTGCAGATGGGCTGTGACGGGGCCTCATGCGGCAGCCTC  
AACATGGAGTGCCGGGTGTGCGGGGACAAGGCATCGGGCTTCCACTACGGTGTTCATGCATGTGAGGGGT  
GCAAGGGCTTCTCCGTCGTACGATCCGCATGAAGCTGGAGTACGAGAAGTGTGAGCGCAGCTGCAAGAT  
TCAGAAGAAGAACCGCAACAAGTGCCAGTACTGCCGCTTCCAGAAGTGCCTGGCACTGGGCATGTCACAC  
AACGCTATCCGTTTTGGTTCGGATGCCGGAGGCTGAGAAGAGGAAGCTGGTGGCAGGGCTGACTGCAAACG  
AGGGGAGCCAGTACAACCCACAGGTGGCCGACCTGAAGGCCTTCTCCAAGCACATCTACAATGCCTACCT  
GAAAAACTTCAACATGACCAAAAAGAAGGCCCGCAGCATCCTCACCGCAAAGCCAGCCACACGGCGCCC  
TTTGTGATCCACGACATCGAGACATTGTGGCAGGCAGAGAAGGGGCTGGTGTGGAAGCAGTTGGTGAATG  
GCCTGCCTCCCTACAAGGAGATCAGCGTGCACGTCTTCTACCGTGCACAGTGCACCACAGTGGAGACCGT  
GCGGGAGCTCACTGAGTTCGCCAAGAGCATCCCCAGCTTCCAGCAGCCTTCTCCTCAACGACCAGGTTACC  
CTTCTCAAGTATGGCGTGCACGAGGCCATCTTCCGCATGCTGGCCTCTATCGTCAACAAGGACGGGCTGC  
TGGTAGCCAACGCGCAGTGGCTTTGTACCCGTCAGTTCCTGCGCAGCCTCCGCAAACCTTCAGTGATAT  
CATTGAGCCTAAGTTTGAATTTGCTGTCAAGTTCAACGCCCTGGAACCTGATGACAGTGCCTGGCCCTA  
TTCATTGCGGCCATATTCTGTGTGGAGACCGCCAGGCCTCATGAACGTTCCACGGGTGGAGGCTATCC  
AGGACACCATCTGCGTGCCTCGAATTCACCTGCAGGCCAACCACCCTGATGCCAGTACCTCTTCCC  
CAAGCTGCTGCAGAAGATGGCTGACCTGCGGCAACTGGTACCGAGCACGCCAGATGATGCAGCGGATC  
AAGAAGACCGAAACCGAGACCTCGTGCACCCTGCTCCAGGAGATCTACAAGGACATGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214735 representing NM\_006238  
 Red=Cloning site Green=Tags(s)

MEQPQEEAPEVREEEEKEEVAEAEGAPELNGGPQHLPSSSYTDLRSSSPPSLDQLQMGCDGASCGSL  
 NMECRVCGDKASGFHYGVHACEGCKGFFRRTIRMKLEYEKERSCKIQKKNRNKCQYCRFQKCLALGMSH  
 NAIRFGRMPEAEKRKL VAGL TANEGSQYNPQVADLKAFSKHIYNAYLKNFNMTKKKARSILT GKASHTAP  
 FVIHDIETLWQAEKGLVWKQLVNLPPYKEISVHVYFRCQCTTVETVRELTEFAKSIPFSLSFLNDQVT  
 LLKYGVHEAIFAMLASIVNKDGLLVANGSGFVTRFLRSLRKPFSDIIEPKFEFVAVKFNALDSDSLAL  
 FIAAIIILCGDRPGLMNVPRVEAIQDTILRALEFHLQANHPDAQYLFPKLLQKMADLRQLVTEHAQMMQRI  
 KKTETETSLHPLLQEIIYKDMY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006238

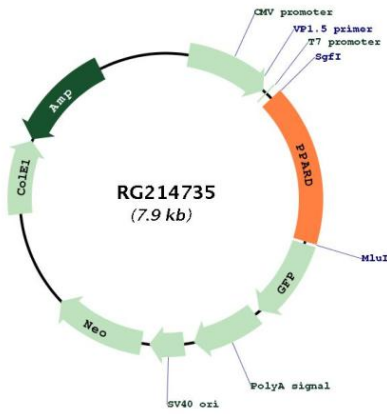
**ORF Size:** 1323 bp

**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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006238.5</a>
<b>RefSeq Size:</b>	3328 bp
<b>RefSeq ORF:</b>	1326 bp
<b>Locus ID:</b>	5467
<b>UniProt ID:</b>	<a href="#">Q03181</a>
<b>Cytogenetics:</b>	6p21.31
<b>Domains:</b>	HOLI, zf-C4
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Pathways in cancer, PPAR signaling pathway, Wnt signaling pathway
<b>Gene Summary:</b>	This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) family. The encoded protein is thought to function as an integrator of transcriptional repression and nuclear receptor signaling. It may inhibit the ligand-induced transcriptional activity of peroxisome proliferator activated receptors alpha and gamma, though evidence for this effect is inconsistent. Expression of this gene in colorectal cancer cells may be variable but is typically relatively low. Knockout studies in mice suggested a role for this protein in myelination of the corpus callosum, lipid metabolism, differentiation, and epidermal cell proliferation. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG214735