

Product datasheet for **RG230089**

PPAR delta (PPARD) (NM_001171818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR delta (PPARD) (NM_001171818) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPARD
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:	>RG230089 representing NM_001171818 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGCCACAGGAGGAAGCCCTGAGGTCCGGGAAGAGGAGGAGAAAGAGGAAGTGGCAGAGGCAG
AAGGAGCCCCAGAGCTCAATGGGGGACCACAGCATGCACCTTCTCCAGCAGCTACACAGACCTCTCCCG
GAGCTCCTCGCCACCCTCACTGCTGGACCAACTGCAGATGGGCTGTGACGGGGCCTCATGCGGCAGCCTC
AACATGGAGTGCCGGGTGTGCGGGGACAAGGCATCGGGCTTCCACTACGGTGTTTCATGCATGTGAGGGGT
GCAAGGGCTTCTCCGTCGTACGATCCGCATGAAGCTGGAGTACGAGAAGTGTGAGCGCAGCTGCAAGAT
TCAGAAGAAGAACCGCAACAAGTGCCAGTACTGCCGCTTCCAGAAGTGCCTGGCACTGGGCATGTCACAC
AACGCTATCCGTTTTGGTTCGGATGCCGGAGGCTGAGAAGAGGAAGCTGGTGGCAGGGCTGACTGCAAACG
AGGGGAGCCAGTACAACCCACAGGTGGCCGACCTGAAGGCCTTCTCCAAGCACATCTACAATGCCTACCT
GAAAAACTTCAACATGACCAAAAAGAAGGCCCGCAGCATCCTCACCGCAAAGCCAGCCACACGGCGCCC
TTTGTGATCCACGACATCGAGACATTGTGGCAGGCAGAGAAGGGGCTGGTGTGGAAGCAGTTGGTGAATG
GCCTGCCTCCCTACAAGGAGATCAGCGTGCACGCTTCTACCGCTGCCAGTGCACCACAGTGGAGACCGT
GCGGGAGCTCACTGAGTTCGCCAAGAGCATCCCCAGCTTCCAGCAGCCTTCTCCTCAACGACCAGGTTACC
CTTCTCAAGTATGGCGTGCACGAGGCCATCTTCGCCATGCTGGCCTCTATCGTCAACAAGGACGGGCTGC
TGGTAGCCAACGCGCAGTGGCTTTGTACCCGTCGAGTTCTGCGCAGCCTCCGCAAACCTTCAGTGATAT
CATTGAGCCTAAGTTTGAATTTGCTGTCAAGTTCAACGCCCTGGAACCTGATGACAGTGCCTGGCCCTA
TTCATTGCGGCCATCATTCTGTGTGGAGACCGCCAGGCCTCATGAACGTTCCACGGGTGGAGGCTATCC
AGGACACCATCCTGCGTGCCTCGAATTCACCTGCAGGCCAACCCCTGATGCCAGTACCTCTTCCC
CAAGCTGCTGCAGAAGATGGCTGACCTGCGGCAACTGGTCAACGAGCACGCCAGATGATGCAGCGGATC
AAGAAGACCGAAACCGAGACCTCGCTGCACCCTCTGCTCCAGGAGATCTACAAGGACATGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230089 representing NM_001171818
 Red=Cloning site Green=Tags(s)

MEQPQEEAPEVREEEKEEVAEAEAGAPELNGGPQHALPSSSYTDLRSSSPPLLDQLQMGCDGASCGSL
 NMECRVCGDKASGFHYGVHACEGCKGFFRRTIRMKLEYEKCCERSCKIQKKNRNKCQYCRFQKCLALGMSH
 NAIRFGRMPEAEKRKL VAGL TANEGSQYNPQVADLKAFSKHIYNAYLKNFNMTKKARSILT GKASHTAP
 FVIHDIETLWQAEKGLVWKQLVNLPPYKEISVHVFYRCQCTTVETVRELTEFAKSIPSFSSLFLNDQVT
 LLKYGVHEAIFAMLASIVNKDGLLVANGSGFVTRFLRSLRKPFSDIIEPKFEFVAVKFNALDSDSLAL
 FIAAIIILCGDRPGLMNVPRVEAIQDTILRALEFHLQANHPDAQYLFPKLLQKMDLRQLVTEHAQMMQRI
 KKTETETSLHPLLQEIIYKDMY

TRTRPLE - GFP Tag - V

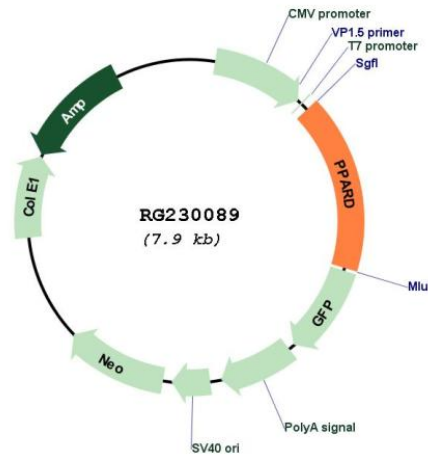
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001171818

ORF Size:	1323 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:	<ol style="list-style-type: none">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_001171818.2
RefSeq Size:	3845 bp
RefSeq ORF:	1326 bp
Locus ID:	5467
UniProt ID:	Q03181
Cytogenetics:	6p21.31
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer, PPAR signaling pathway, Wnt signaling pathway
Gene Summary:	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]