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Product datasheet for RG227043

PPAR delta (PPARD) (NM_177435) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAR delta (PPARD) (NM_177435) 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:

>RG227043 representing NM_177435
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGCCACAGGAGGAAGCCCCTGAGGTCCGGGAAGAGGAGGAGAAAGAGGAAGTGGCAGAGGCAG
AAGGAGCCCCAGAGCTCAATGGGGGACCACAGCATGCACTTCCTTCCAGCAGCTACACAGACCTCTCCCG
GAGCTCCTCGCCACCCTCACTGCTGGACCAACTGCAGATGGGCTGTGACGGGGCCTCATGCGGCAGCCTC
AACATGGAGTGCCGGGTGTGCGGGGACAAGGCATCGGGCTTCCACTACGGTGTTCATGCATGTGAGGGGT
GCAAGGGCTTCTTCCGTCGTACGATCCGCATGAAGCTGGAGTACGAGAAGTGTGAGCGCAGCTGCAAGAT
TCAGAAGAAGAACCGCAACAAGTGCCAGTACTGCCGCTTCCAGAAGTGCCTGGCACTGGGCATGTCACAC
AACGCTATCCGTTTTGGTCGGATGCCGGAGGCTGAGAAGAGGAAGCTGGTGGCAGGGCTGACTGCAAATG
AGGGGAGCCAGTACAACCCACAGGTGGCCGACCTGAAGGCCTTCTCCAAGCACATCTACAATGCCTACCT
GAAAAACTTCAACATGACCAAAAAGAAGGCCCGCAGCATCCTCACCGGCAAAGCCAGCCACACGGCGCCC
TTTGTGATCCACGACATCGAGACATTGTGGCAGGCAGAGAAGGGGCTGGTGTGGAAGCAGTTGGTGAATG
GCCTGCCTCCCTACAAGGAGATCAGCGTGCACGTCTTCTACCGCTGCCAGTGCACCACAGTGGAGACCGT
GCGGGAGCTCACTGAGTTCGCCAAGAGCATCCCCAGCTTCAGCAGCCTCTTCCTCAACGACCAGGTTACC
CTTCTCAAGTATGGCGTGCACGAGGCCATCTTCGCCATGCTGGCCTCTATCGTCAACAAGGACGGGCTGC
TGGTAGCCAACGGCAGTGGCTTTGTCACCCGTGAGTTCCTGCGCAGCCTCCGCAAACCCTTCAGTGATAT
CATTGAGCCTAAGTTTGAATTTGCTGTCAAGTTCAACGCCCTGGAACTTGATGACAGTGACCTGGCCCTA
TTCATTGCGGCCATCATTCTGTGTGGAGGTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

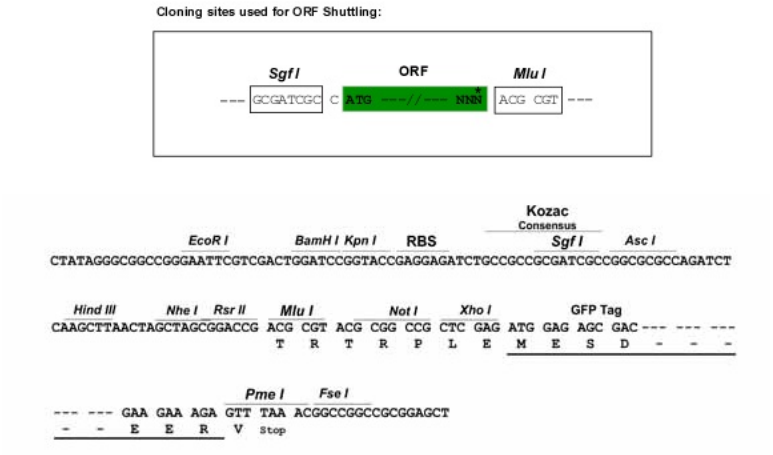
>RG227043 representing NM_177435
Red=Cloning site Green=Tags(s)

MEQPQEEAPEVREEEEKEEVAEAEGAPELNGGPQHALPSSSYTDLSRSSSPPSLLDQLQMGCDGASCGSL
NMECRVCGDKASGFHYGVHACEGCKGFFRRTIRMKLEYEKCERSCKIQKKNRNKCQYCRFQKCLALGMSH
NAIRFGRMPEAEKRKLVAGLTANEGSQYNPQVADLKAFSKHIYNAYLKNFNMTKKKARSILTGKASHTAP
FVIHDIETLWQAEKGLVWKQLVNGLPPYKEISVHVFYRCQCTTVETVRELTEFAKSIPSFSSLFLNDQVT
LLKYGVHEAIFAMLASIVNKDGLLVANGSGFVTREFLRSLRKPFSDIIEPKFEFAVKFNALELDDSDLAL
FIAAIILCGGE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177435

ORF Size: 1083 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_177435.2, NP_803184.1

RefSeq Size: 2028 bp

RefSeq ORF: 1086 bp

Locus ID: 5467

UniProt ID: Q03181

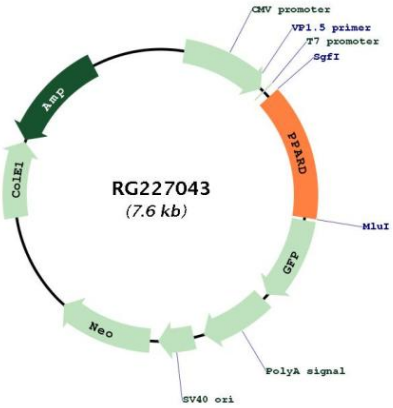
Cytogenetics: 6p21.31

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]

Product images:



Circular map for RG227043