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Product datasheet for RC214159

GPR120 (FFAR4) (NM_181745) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR120 (FFAR4) (NM_181745) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR120
Synonyms:	BMIQ10; GPR120; GPR129; GT01; O3FAR1; PGR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214159 representing NM_181745
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCCTGAATGCGCGCGGGCAGCGGGCGACGCGCCCTTGCGCAGCCTGGAACAAGCCAACCGCACCC
GCTTTCCCTTCTTCTCCGACGTCAAGGGCGACCACCGGCTGGTGCTGGCCGCGGTGGAGACAACCGTGCT
GGTGCTCATCTTTGCAGTGTCGCTGCTGGGCAACGTGTGCGCCCTGGTGCTGGTGGCGCGCCGACGACGC
CGCGGCGCGACTGCCTGCCTGGTACTCAACCTCTTCTGCGCGGACCTGCTCTTCATCAGCGCTATCCCTC
TGGTGCTGGCCGTGCGCTGGACTGAGGCCTGGCTGCTGGGCCCCGTTGCCTGCCACCTGCTCTTCTACGT
GATGACCCTGAGCGGCAGCGTCACCATCCTCACGCTGGCCGCGGTCAGCCTGGAGCGCATGGTGTGCATC
GTGCACCTGCAGCGCGGCGTGCGGGGTCCTGGGCGGCGGGCGCGGGCAGTGCTGCTGGCGCTCATCTGGG
GCTATTCGGCGGTCGCCGCTCTGCCTCTCTGCGTCTTCTTCCGAGTCGTCCCGCAACGGCTCCCCGGCGC
CGACCAGGAAATTTCGATTTGCACACTGATTTGGCCCACCATTCCTGGAGAGATCTCGTGGGATGTCTCT
TTTGTTACTTTGAACTTCTTGGTGCCAGGACTGGTCATTGTGATCAGTTACTCCAAAATTTTACAGACCT
CGGAACACCTCCTGGATGCAAGAGCTGTCGTGACTCACAGTGAGATCACAAAGGCATCAAGGAAGAGGCT
CACGGTAAGCCTGGCCTACTCGGAGAGCCACCAGATCCGCGTGTCCCAGCAGGACTTCCGGCTCTTCCGC
ACCCTCTTCCTCCTCATGGTCTCCTTCTTCATCATGTGGAGCCCCATCATCATCACCATCCTCCTCATCC
TGATCCAGAACTTCAAGCAAGACCTGGTCATCTGGCCGTCCCTCTTCTTCTGGGTGGTGGCCTTCACATT
TGCTAATTCAGCCCTAAACCCCATCCTCTACAACATGACACTGTGCAGGAATGAGTGGAAGAAAATTTTT
TGCTGCTTCTGGTTCCCAGAAAAGGGAGCCATTTTAACAGACACATCTGTCAAAAGAAATGACTTGTCGA
TTATTTCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC214159 representing NM_181745
Red=Cloning site Green=Tags(s)

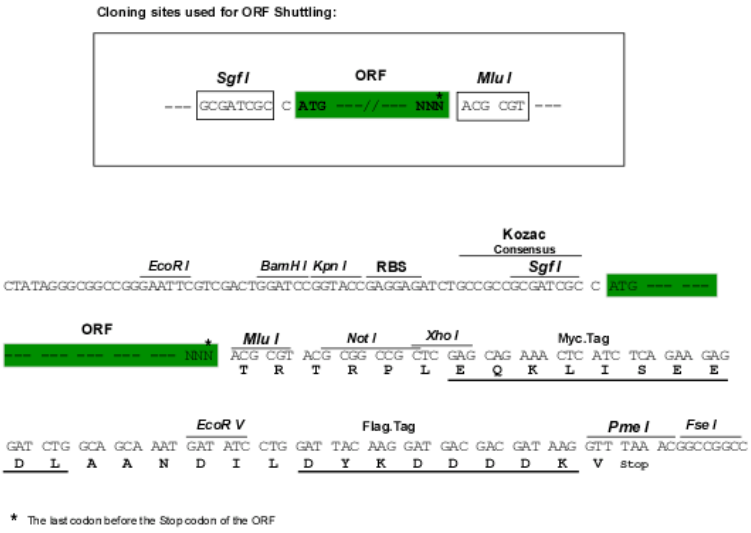
MSPECARAAGDAPLRSLEQANRTRFPFFSDVKGDHRLVLAAVETTVLVLIFAVSLLGNVCALVLVARRRR
RGATACLVLNLFCADLLFISAIPLVLAVRWTEAWLLGPVACHLLFYVMTLSGSVTILTLAAVSLERMVCI
VHLQRGVRGPGRRARAVLLALIWGYSAVAALPLCVFFRVVPQRLPGADQEISICTLIWPTIPGEISWDVS
FVTLNFLVPGLVIVISYSKILQTSEHLLDARAVVTHSEITKASRKRLTVSLAYSESHQIRVSQQDFRLFR
TLFLLMVSFFIMWSPIIITILLILIQNFKQDLVIWPSLFFWVVAFTFANSALNPILYNMTLCRNEWKKIF
CCFWFPEKGAILTDTSVKRNDLSIISG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6114_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181745

ORF Size: 1131 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_181745.4

RefSeq Size: 1190 bp

RefSeq ORF: 1134 bp

Locus ID: 338557

UniProt ID: Q5NUL3

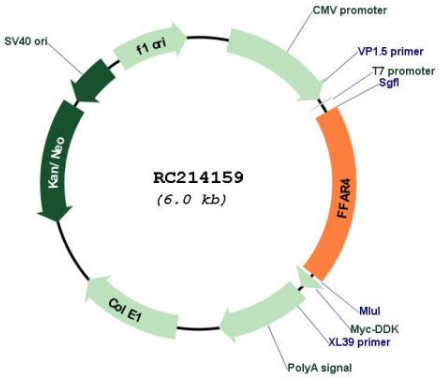
Cytogenetics: 10q23.33

Protein Families: Druggable Genome, Transmembrane

MW: 42.1 kDa

Gene Summary: This gene encodes a G protein-coupled receptor (GPR) which belongs to the rhodopsin family of GPRs. The encoded protein functions as a receptor for free fatty acids, including omega-3, and participates in suppressing anti-inflammatory responses and insulin sensitizing. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC214159