

Product datasheet for **RC231184**

GPR120 (FFAR4) (NM_001195755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR120 (FFAR4) (NM_001195755) 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:	>RC231184 representing NM_001195755 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTTGAATGCGCGGGCAGCGGGCAGCGCCCTTGCGCAGCCTGGAGCAAGCCAACCGCACCC
GCTTCCCTTCTCTCCGACGTCAAGGGCGACCACCGGCTGGTGTGGCCGCGGTGGAGACAACCGTGT
GGTGTCTATCTTGCAGTGTGCTGCTGGGCAACGTGTGCGCCCTGGTGTGGTGGCGCCGACGACGC
CGCGGCGGACTGCCTGCCTGGTACTCAACCTCTTCTGCGGGACCTGCTTTCATCAGCGCTATCCCTC
TGGTGTGGCCGTGCGCTGGACTGAGGCCTGGCTGCTGGGCCCGTTGCCTGCCACCTGCTTTCTACGT
GATGACCCTGAGCGGCAGCGTCACCATCCTCACGCTGGCCGCGGTGAGCCTGGAGCGCATGGTGTGCATC
GTGCACCTGCAGCGCGCGTGGGGTCTGGGCGCGGGCGCGGCACTGCTGTGGCGCTCATCTGGG
GCTATTCGGCGGTGCGCGCTCTGCTCTCTGCTCTTCTCCGAGTCGTCGCAACGGCTCCCCGGCGC
CGACCAGGAAATTCGATTTGCACACTGATTTGGCCACCATTCTGGAGAGATCTCGTGGGATGTCTCT
TTTGTACTTTGAACTTCTTGGTCCAGGACTGGTCAATGTGATCAGTTACTCCAAAATTTACAGATCA
CAAAGGCATCAAGGAAGAGGCTCACGGTAAGCCTGGCCTACTCGGAGAGCCACCAGATCCGCGTGTCCCA
GCAGGACTTCCGGCTCTCCGCACCCTCTCCTCCTCATGGTCTCCTTCTTCATCATGTGGAGCCCCATC
ATCATCACCATCCTCCTCATCTGATCCAGAATTCAAGCAAGACCTGGTCACTGGCCGTCCTCTTCT
TCTGGGTGGTGGCCTTACATTTGCTAATTCAGCCCTAAACCCATCCTCTACAACATGACACTGTGCAG
GAATGAGTGAAGAAAATTTTTGCTGCTTCTGGTTCAGAAAAGGAGCCATTTAAACAGACACATCT
GTCAAAAGAAATGACTTGTGATTTCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC231184 representing NM_001195755
Red=Cloning site Green=Tags(s)

MSPECARAAGDAPLRSLSEQANRTRFPFFSDVKGDHRLVLA AVETTVLVLIFAVSLLGNVCALVLVARRRR
 RGATACLVLNLCADLLFISAIPLVLA VRWTEAWLLGPVACHLLFYVMTLSGSVTILTLAAVSLERMVCI
 VHLQRGVRGPRRARAVLLALIWGYSAVAALPLCVFFRVVPQRLPGADQEISICTLIWPTIPGEISWDVVS
 FVTLNFLVPLVIVISYSKILQITKASRKRLTVSLAYSESHQIRVSQQDFRLFRTLFLLMVSFFIMWSPI
 IITILLILIQNFKQDLVIWPSLFFWVVAFTFANSALNPILYNMTLCRNEWKKIFCCFWFPEKGAILTDTSS
 VKRNDLSIISG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8054_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001195755

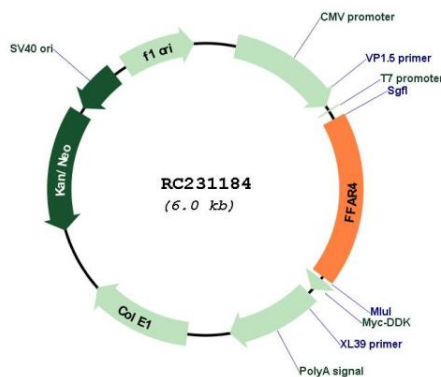
ORF Size: 1083 bp

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 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:	<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_001195755.2
RefSeq ORF:	1086 bp
Locus ID:	338557
UniProt ID:	Q5NUL3
Cytogenetics:	10q23.33
Protein Families:	Druggable Genome, Transmembrane
MW:	40.9 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 RC231184