

Product datasheet for **RG214159**

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:	TurboGFP
Symbol:	GPR120
Synonyms:	BMIQ10; GPR120; GPR129; GT01; O3FAR1; PGR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214159 representing NM_181745 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCCTGAATGCGCGCGGGCAGCGGGCAGCGCCCTTGCGCAGCCTGGAACAAGCCAACCGCACCC
GCTTCCCTTCTCTCCGACGTCAAGGGCGACCACCGGCTGGTGTGGCCGCGGTGGAGACAACCGTGCT
GGTGCTCATCTTTCAGTGTGCTGCTGGGCAACGTGTGCCCTGGTGTGGTGGCGCGCCGACGACGC
CGCGCGCGACTGCCTGCCTGGTACTCAACCTCTCTGCGGGACCTGCTTTCATCAGCGCTATCCCTC
TGGTGCTGGCCGTGCGCTGGACTGAGGCCTGGCTGCTGGGCCCGTTGCCTGCCACCTGCTTTCTACGT
GATGACCCTGAGCGGCAGCGTCACCATCCTCACGCTGGCCGCGGTGAGCCTGGAGCGCATGGTGTGCATC
GTGCACCTGCAGCGCGCGGTGCGGGTCTGGGCGCGGGCGCGGCACTGCTGTGGCGCTCATCTGGG
GCTATTCGGCGGTGCGCGCTCTGCTCTCTGCTCTTCTCCGAGTCGTCCCGCAACGGCTCCCCGGCGC
CGACCAGGAAATTTGATTTGCACACTGATTTGGCCACCATTCTGGAGAGATCTCGTGGGATGTCTCT
TTTGTACTTTGAACTTCTTGGTGCCAGGACTGGTCATTGTGATCAGTTACTCCAAAATTTACAGACCT
CGGRACACCTCCTGGATGCAAGAGCTGTCGTGACTCACAGTGAGATCACAAAGGCATCAAGGAAGAGGCT
CACGGTAAGCCTGGCCTACTCGGAGGCCACCAGATCCGCGTGTCCAGCAGGACTTCCGGCTCTCCGC
ACCCTCTCCTCCTCATGGTCTCCTTCTCATCATGTGGAGCCCCATCATCACCATCCTCCTCATCC
TGATCCAGAACTTCAAGCAAGACCTGGTCACTGGCCGTCCTCTTCTGGGTGGTGGCCTTACATT
TGCTAATTCAGCCCTAAACCCCATCCTCTACAACATGACACTGTGCAGGAATGAGTGAAGAAAATTTT
TGCTGCTTCTGGTTCAGAAAAGGGAGCCATTTAACAGACACATCTGTCAAAGAAATGACTTGTGCA
TTATTTCTGGC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214159 representing NM_181745
Red=Cloning site Green=Tags(s)

MSPECARAAGDAPLRSLSEQANRTRFPFFSDVKGDHRLVLA AVETTVLV LIFAVSLLGNV CALVLVARRRR
 RGATA CLV LNLFCADLLFISA IPLVLA VRWTEAWLLGPVACHLLFYVMTLSGSV TILTLAAVSLERMVCI
 VHLQRGVRGPRRARAVLLALIWGYSAVAALPLCVFFRVVPQRLPGADQEISICTLIWPTIPGEISWDVS
 FVTLNFLV PGLVIVISYSKILQTSXHL LDARAVVTHSEITKASRKRLTVSLAYSESHQIRVSQQDFRLFR
 TLFLLMVSFFIMWSP IITILLILI QNFKQDLVIWPSLFFVWVAFTFANSALNPILYNM T LCRNEWKKIF
 CCFWFPEKGAILTDTSVKRNDLSIISG

TRTRPLE - GFP Tag - V

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_181745.2](#), [NP_859529.2](#)

RefSeq Size: 1190 bp

RefSeq ORF: 1134 bp

Locus ID: 338557

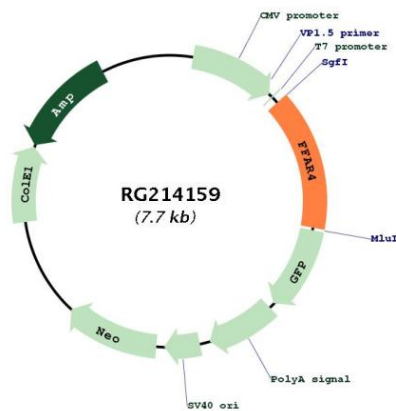
UniProt ID: [Q5NUL3](#)

Cytogenetics: 10q23.33

Protein Families: Druggable Genome, Transmembrane

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 RG214159