

Product datasheet for **SC307360**

GPR120 (FFAR4) (NM_181745) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR120 (FFAR4) (NM_181745) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR120
Synonyms:	BMIQ10; GPR120; GPR129; GT01; O3FAR1; PGR4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC307360 representing NM_181745. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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CGCCCTTCACCATGTCCCTGAATGCGCGCGGGCAGCGGGCAGCGCCCTTGCGCAGCCTGGAACAAG  
CCAACCGCACCCGCTTCCCTTCTTCTCCGACGTCAAGGGCGACCAACCGCTGGTCTGGCCGCGTGG  
AGACAACCGTGTGGTGTCTATCTTTCAGTGTGCTGCTGGCAACGTGTGCGCCCTGGTCTGGTGG  
CGCGCCGACGACGCCGCGCGGACTGCCTGCCTGGTACTCAACCTCTTCTGCGCGGACCTGCTCTCA  
TCAGCGCTATCCCTCTGGTGTGGCCGTGCGCTGGACTGAGGCCTGGCTGCTGGGCCCGTTGCCTGCC  
ACCTGCTCTTCTACGTGATGACCCTGAGCGGCAGCGTCACCATCCTCACGCTGGCCGCGGTGAGCCTGG  
AGCGCATGGTGTGCATCGTGCACCTGCAGCGCGCGTGGGGTCTGGCGGGCGGGCGCGGCAGTGC  
TGCTGGCGCTCATCTGGGCTATTGGCGGTGCGCGCTCTGCCTCTCTGCGTCTTCTCCGAGTCGTC  
CGCAACGCTCCCGCGCCGACCAAGAAATTCGATTTGCACACTGATTTGGCCACCATTCTGGAG  
AGATCTCGTGGGATGTCTCTTTTGTACTTTGAACTTCTTGGTGCCAGGACTGGTATTGTGATCAGTT  
ACTCAAAATTTACAGACCTCGGAACCTCCTGGATGCAAGAGCTGTCGTGACTCACAGTGAGATCA  
CAAAGGCATCAAGGAAGAGGCTCACGGTAAGCCTGGCCTACTCGGAGAGCCACCAGATCCGCGTGTCCC  
AGCAGGACTTCCGGCTCTCCGCACCCTTCTCCTCATGGTCTCCTTCTTATCATGTGGAGCCCCA  
TCATCATCACCATCCTCCTCATCTGATCCAGAATCAAGCAAGACCTGGTCACTGCGCGTCCCTCT  
TCTTCTGGGTGGTGGCCTTACATTTGCTAATTCAGCCCTAAACCCATCCTCTACAACATGACACTGT  
GCAGAAATGAGTGAAGAAAATTTTGGTCTTCTGGTCCCAGAAAAGGGAGCATTTTAAACAGACA  
CATCTGTCAAAGAAATGACTTGTGATTATTTCTGGTAATGTTTTCAAAGGGCAATTCAGATCTGG  
TACCGATATCAAGCTTGTGACTCTAGATTGCGCGCGGTCATAGCTGTTTCTGAACA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_181745 unedited</p> <pre> GGAGTTCAAAATTGTATACGACTCACTATAGGGCGGCCGGAATCGCCCTTACCCATGTC CCCTGAATGCGCGCGGGCAGCGGGCGACGCGCCCTTGCAGCAGCTGGAACAAGCCAACCG CACCCGCTTTCCCTTCTTCTCCGACGTCAAGGGCGACCACCGCTGGTGTGGCCGCGGT GGAGACAACCGTGTGGTGTCTATCTTTGCAAGTGTGCTGCTGGGCAACGTGTGCGCCCT GGTGTGGTGGCGCGCCGACGACGCCGCGCGACTGCCTGCCTGGTACTCAACCTCTT CTGCGCGGACCTGCTCTTATCAGCGCTATCCCTCTGGTGTGGCCGTGCGCTGGACTGA GGCCTGGCTGCTGGGCCCGTTGCCTGCCACCTGCTCTTCTACGTGATGACCCTGAGCGG CAGCGTACCATCCTCACGCTGGCCGCGGTGAGCCTGGAGCGCATGGTGTGCATCGTGCA CCTGCAGCGCGCGTGGGGTCTGGCGGGCGGGCGCGGCGAGTGTGCTGGCGCTCAT CTGGGGTATTCCGGGTCGCGCTCTGCCTCTGCGTCTTCTCCGAGTCGTCCCGCA ACGGCTCCCCGGCGCCGACCAGGAAATTCGATTTGCACACTGATTTGGCCACCATTCC TGGAGAGATCTCGTGGGATGTCTTTTGTACTTTGAACTTCTGGTGCAGGACTGGT CATTGTGATCAGTACTCAAAATTTACAGACCTCGGGACACCTCTGGATGCAAGAGC TGTCGTGACTCACAGTGAGATCAACAAAGCATCAAGGAAGAAGCTCACGTAAGCCTGGC CTACTCGGAGAGCCACAGATCCGCGTGTCCAGCAGGACTTTCGGCTCTCCGCACCCCT T </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_181745 unedited</p> <pre> AGNAAAGCACTGGGNNAGGGTACAGGNATGCCACCCGGGCTCTGTTCAAGAAACAGCTA TGACCGCGGCCCAATCTAGAGTCGACAAGCTTGATATCGGTACCAGATCTGAATTCGCC CTTTGAAAACATTAGCCAGAAATAATCGACAAGTATTTCTTTTACAGATGTGTCTGTT AAAATGGCTCCCTTTTCTGGGAACCAGAAGCAGCAAAAAATTTTCTTCCACTCATTCTG CACAGTGTGATGTTGTAGAGGATGGGGTTAGGGCTGAATTAGCAAATGTGAAGGCCACC ACCCAGAAGAAGAGGGGACGGCCAGATGACCAGGCTTGCTTGAAGTTCTGGATCAGGATG AGGAGGATGGTGTGATGATGGGGTCCACATGATGAAGAAGGAGACCATGAGGAGGAAG AGGGTGCAGGAAGACCGGAAGTCTGCTGGGACACGCGGATCTGGTGGCTCTCCGAGTAG GCCAGGCTTACCGTGAGCCTCTTCTTGATGCCTTTGTGATCTCACTGTGAGTCACGACA GCTCTTGATCCAGGAGGTGTTCCGAGGCTGTAAAATTTGGAGTAACTGATCACAATG ACCAGTCTGGCACCAGAAGTTCAAAGTAACAAAAGAGACATCCACGAGATCTCTCCA GGAATGGTGGCCAAATCAGTGTGCAAATCGAAATTTCTGGTGGCGCGCGGNGAGCCGT TGCGGGACGACTCGGAAGAAGACGACGAGAGGACGAGCGCGGACCGCGAATAGCCCGAG ATGAGCGCCAGCAGCACTGCCCGCGCCCGCCAGACCCCGCACGCCGGGCTGGCAGT GCACGATGCACACCATGCGCTNCAGGCTGACG </pre>
Restriction Sites:	SgfI-MluI
ACCN:	NM_181745
Insert Size:	1233 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_181745.2
RefSeq Size:	1190 bp
RefSeq ORF:	1233 bp
Locus ID:	338557
UniProt ID:	Q5NUL3
Cytogenetics:	10q23.33
Protein Families:	Druggable Genome, Transmembrane
MW:	45 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (GPR120-L). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>