

Product datasheet for **RN202773**

Ffar4 (NM_001047088) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ffar4 (NM_001047088) Rat Untagged Clone
Tag: Tag Free
Symbol: Ffar4
Synonyms: Gpr120; O3far1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN202773 representing NM_001047088
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCTGAGTGTGCGCAGACGACGGGCCCTGGCCCTCGCGCACCCCGACCAAGTCAATCGCACCC
ACTTCCCTTTCTTCTCGGATGTCAAGGGCGACCACCGGCTGGTGTGAGCGTCTGGAGACCACCGTTCT
GGGACTCATCTTTGGTCTCACTGCTGGCAACGTGTGTGCCCTGGTGTGGTGGTGGCGCCGTCGGCGC
CGTGGGGGACAGTCAGCTTGGTCTCAACCTCTTCTGCGCGGATTTGCTCTTACCAGCGCCATCCCTC
TAGTGCTCGTGGTGGCTGGACTGAAGCCTGGCTGCTGGGGCCCGTCGTCTGCCACCTGCTTTTACGT
GATGACCATGAGCGGCAGCGTCACGATCCTCACGCTGGCCGCGGTGAGCCTGGAGCGCATGGTGTGCATC
GTGCGCCTGCGGCGCGGCTTGGCGGCCCGGGGCGGCGGACTCAGGCGGCGCTGTGGCTTTTATATGGG
GTTACTCGGCGCTCGCCGCGCTGCCCTCTGCATCTTGTCCGCGTGGTCCCGCAGCGCCTTCCCGGCGG
GGACCAGGAAATCCGATCTGCACATTGGATTGGCCCAACCGCATAGGAGAAATCTATGGGATGTGTTT
TTTGTGACTTTGAACTTCTGGTACCAGGACTGGTCATTGTGATCAGCTACTCCAAGATTTTACAGATCA
CGAAAGCCTCGCGGAAGAGGCTTACGCTGAGCTGGCATACTCCGAGAGCCACCAGATCCGAGTGTCCCA
GCAGGACTACCGGCTCTCCGAACGCTCTTCTGCTCATGGTTTCTTCTTTCATCATGTGGAGTCCCATC
ATCATCACCATCCTCCTCATCTTGATCCAGAACTCCGGCAGGACCTGGTATCTGGCCGTCCTTTTCT
TCTGGGTGGTGGCCTTACGTTTGCCAACCTCCGCCCTAAACCCATTCTGTACAACATGTGCTGTTTCAG
GAGCGAGTGGAGGAAGATTTTTTGTGCTTCTTTTTCCAGAGAAGGGAGCCATTTTACAGAAACGCTCT
ATCAGGCGAAATGACTTGTCTGTATTTCCACCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2228_d08.zip



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001047088
Insert Size:	1086 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001047088.1 , NP_001040553.1
RefSeq Size:	1388 bp
RefSeq ORF:	1086 bp
Locus ID:	294075
UniProt ID:	Q2AC31
Cytogenetics:	1q53
Gene Summary:	<p>Receptor for medium and long-chain free fatty acids (FFAs). Signals via a G(q)/G(11)-coupled pathway. Acts as a receptor for omega-3 fatty acids and mediates robust anti-inflammatory effects, particularly in macrophages and fat cells. The anti-inflammatory effects involve inhibition of TAK1 through a beta-arrestin 2 (ARRB2)/TAB1-dependent effect, but independent of the G(q)/G(11)-coupled pathway. Mediates potent insulin sensitizing and antidiabetic effects by repressing macrophage-induced tissue inflammation. May mediate the taste of fatty acids. Mediates FFA-induced inhibition of apoptosis in enteroendocrine cells. May play a role in the regulation of adipocyte development and differentiation (By similarity). [UniProtKB/Swiss-Prot Function]</p>