

Product datasheet for **RR202773**

Ffar4 (NM_001047088) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ffar4 (NM_001047088) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ffar4
 Synonyms: Gpr120; O3far1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR202773 representing NM_001047088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTGAGTGTGCGCAGACGACGGGCCCTGGCCCTCGCGCACCCCGACCAAGTCAATCGCACCC
 ACTTCCCTTTCTTCTCGGATGTCAAGGGCGACCACCGGCTGGTGTGAGCGTCTGGAGACCACCGTTCT
 GGGACTCATCTTTGGTCTCACTGCTGGGCAACGTGTGTGCCCTGGTGTGGTGGTGGCGCCGTCGGCGC
 CGTGGGGCGACAGTCAGCTTGGTGTCAACCTCTTCTGCGGGATTTGCTCTTACCAGCGCCATCCCTC
 TAGTGCTCGTGGTGGCTGGACTGAAGCCTGGCTGCTGGGGCCCGTCTGCTGCCACTGCTTTCTACGT
 GATGACCATGAGCGGCAGCGTCACGATCCTCACGCTGGCCGCGGTACGCTGGAGCGCATGGTGTGCATC
 GTGCGCCTGCGGCGCGGCTTGGCGGCCCGGGCGGCGGACTCAGCGCGGCGCTGTGGCTTTCATATGGG
 GTTACTCGGCGCTCGCCGCGCTGCCCTCTGCATCTTGTCCGCGTGGTCCCGCAGCGCCTTCCCGGCGG
 GGACCAGGAAATCCGATCTGCACATTGGATTGGCCCAACCGCATAGGAGAAATCTATGGGATGTGTTT
 TTTGTGACTTTGAACTTCTGGTACCAGGACTGGTCAATGTGATCAGCTACTCCAAGATTTTACAGATCA
 CGAAAGCCTCGCGGAAGAGGCTTACGCTGAGCTGGCATACTCCGAGAGCCACCAGATCCGAGTGTCCCA
 GCAGGACTACCGGCTCTCCGAACGCTCTTCTGCTCATGGTTTCTTCTTTCATCATGTGGAGTCCCATC
 ATCATCACCATCCTCATCTTGATCCAGAACTTCGGCAGGACCTGGTATCTGGCCGTCCTTTTCT
 TCTGGGTGGTGGCTTACGTTTGCCAACCTCCGCCCTAAACCCATTCTGTACAACATGTGCTGTTTCAG
 GAGCGAGTGGAGGAAGATTTTTTGTGCTTCTTTTTCCAGAGAAGGGAGCCATTTTACAGAAACGTCT
 ATCAGGCGAAATGACTTGTCTGTTATTTCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202773 representing NM_001047088
Red=Cloning site Green=Tags(s)

MSPECAQTTGPGPSRTPDQVNRTHFPFFSDVKGDHRLVLSVLETTVLGLIFVVSLLGNVCALVLRVRRR
 RGATVSLVLNLF CADLLF TSAIPLVLRVWTEAWLLGPVVCHLLFYVMTMSGSVITLTLAAVSLERMVCI
 VRLRRGLSGPGRRTQAALLAFIWGYSALAAALPLCILFRVVPQRLPGGDQEIPICITLDWPNRIGEISWDVF
 FVTLNFLVPLVIVISYSKILQITKASRKRLTSLAYSESHQIRVSQQDYRLFRTLFLLMVSFFIMWSP
 IITILLILIQNFRQDLVIWPSLFFWVVAFTFANSALNPILYNMSLFRSEWRKIFCCFFPEKGAIF TETS
 IRRNDLSVIST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2138_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001047088

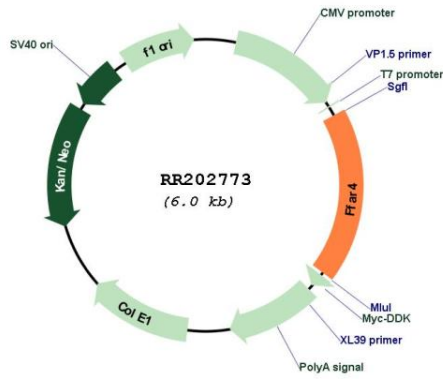
ORF Size: 1083 bp

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:	<u>NM_001047088.1</u> , <u>NP_001040553.1</u>
RefSeq Size:	1388 bp
RefSeq ORF:	1086 bp
Locus ID:	294075
UniProt ID:	<u>Q2AC31</u>
Cytogenetics:	1q53
MW:	41.4 kDa
Gene Summary:	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]

Product images:



Circular map for RR202773