

Product datasheet for MC202355

Ffar4 (NM_181748) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ffar4 (NM_181748) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ffar4
Synonyms:	AI552415; Gpr120; Gpr129; GT01; KPG_013; O3far1; Pgr4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC053698 sequence for NM_181748
 CGCAGATGAGCGCTCTCTCAGACAGCGGCGGGCCGGCGCCCGGCATGTCCCCTGAGTGTGCACAGA
 CGACGGGCCCTGGCCCCCGCACACCCTGGACCAAGTCAATCGCACCCACTTCCCTTTCTCTCGGATGT
 CAAGGGCGACCACCGTTGGTGTGGAGCGTCGTGGAGACCACCGTTCTGGGGCTCATCTTTGTCGTCTCA
 CTGCTGGGCAACGTGTGTCTAGTGCTGGTGGCGCGCCGTGGCGCCGTGGGGCGACAGCCAGCCTGG
 TGCTCAACCTCTTCTGCGCGGATTTGCTCTTACCAGCGCATCCCTCTAGTGCTCGTGTGCGCTGGAC
 TGAGGCCCTGGCTGTTGGGGCCCGTGGTCTGCCACCTGCTCTTCTACGTGATGACAATGAGCGGCAGCGTC
 ACGATCTCACACTGGCCGCGGTGAGCCTGGAGCGCATGGTGTGCATCGTGGCCTCCGGCGCGGCTTGA
 GCGGCCCGGGGCGGCGGACTCAGGCGGCACTGCTGGCTTTCATATGGGGTACTCGGCGCTCGCCGCGCT
 GCCCTCTGCATCTTGTCCGCGTGGTCCCGCAGCGCCTTCCCGCGGGGACCAGGAAATCCGATTTGC
 ACATTGGATTGGCCCAACCGCATAGGAGAAATCTCATGGGATGTGTTTTTTGTGACTTTGAACTTCTGG
 TGCCGGGACTGGTCATTGTGATCAGTTACTCCAAAATTTACAGATCACGAAAGCATCGCGGAAGAGGCT
 TACGCTGAGCTTGGCATACTCTGAGAGCCACCAGATCCGAGTGTCCCAACAAGACTACCGACTCTCCGC
 ACGCTCTTCTGCTCATGGTTTCTTCTTTCATCATGTGGAGTCCCATCATCATCACCATCTCTCATCT
 TGATCCAAAATTCGGCAGGACCTGGTGTGATCTGGCCATCCCTTTTCTTCTGGGTGGTGGCTTACGTT
 TGCCAACTCTGCCCTAAACCCATACTGTACAACATGTCGCTGTTTCAGGAACGAATGGAGGAAGATTTT
 TGCTGCTCTTTTTTCCAGAGAAGGGAGCCATTTTACAGACACGTCTGTGAGGCAATGACTTGTCTG
 TTATTTCCAGCTAACTAGCCTCTGGTGTAGGTGAACACGGTGTGCATGTAAGGGAGTTAACTTCAAG
 GAAAGCCACAGTGGCCCTGCTTTAAAAATACCCGACTTCCAACAGCAGGCATCTACGGAGCCAGCAA
 ATTAAGGAATGATCGCTCAGTATAAAAAATTTTTCTTAAAAAGAACTTCTATGGGTTCTTTTTGTGAA
 CTTTTTTTGTGTTTGAATATGATCTAGTTAATAAATTTTTATTTATAACTGTTCTACAAAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	NM_181748
Insert Size:	1086 bp



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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).
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:	BC053698 , AAH53698
RefSeq Size:	1419 bp
RefSeq ORF:	1086 bp
Locus ID:	107221
UniProt ID:	Q7TMA4
Cytogenetics:	19 C2
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. Mediates 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.[UniProtKB/Swiss-Prot Function]