

Product datasheet for MC212962

Ffar1 (NM_194057) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ffar1 (NM_194057) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ffar1
Synonyms:	Gpr40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NM_194057.2 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTGCCCCACAGCTCTCCTTCGCTCTCTATGTATCTGCCTTTGCGCTGGGCTTTCATTGAACT
TGTTAGCCATCCGAGGCGCAGTGTCCCACGCTAACTGCGACTCACTCCCAGCTTGGTCTACACTCTCCA
TCTGGGCTGCTGATCTCCTACTGGCCATCACTCTGCCCTGAAGGCTGTGGAGGCCCTGGCTTCTGGA
GCCTGGCCCTGCCGCTCCCTTCTGCCAGTCTTGCCTTGCCCACTTTGCTCCCTCTACGCAGGCG
GAGGCTTCTAGCTGCTCTCAGCGCTGGCCGCTACCTGGGGCTGCCTTCCCTTCGGGTACCAAGCCAT
CCGGAGGCCCGCTATTCTGGGGTGTGTGTGGCTATATGGGCCCTTGTCTCTGCCACTGGGGCTG
GCCCTTGCTTGAGACTTCCGGAAGCTGGCTGGACAACAGTACCAAGTCCCTGGGCATCAACATACCCG
TGAATGGCTCCCGGTCTGCCTGGAAGCCTGGGATCCCGACTCTGCCCGCCCTGCCCGTCTCAGTTTCTC
CATTCTGCTCTTCTTCTGCCCTTGGTCATCACTGCCTTCTGCTATGTGGGCTGCCTCCGGGCCCTGGT
CGCTCAGGCTGAGCCACAAACGGAAGCTCAGGGCAGCTTGGGTGGCCGGAGGCGCTCTCCTCACACTCC
TGCTCTGCCTGGGGCCCTATAATGCCTCCAATGTGGCTAGTTTCATAAACCCGGACCTAGGAGGCTCCTG
GAGGAAGTTGGGACTCATCACAGGGCCCTGGAGTGTGGTACTCAACCCACTGGTCACTGGTACTTGGGA
ACAGGTCTGGACGGGAACAATATGTGTGACGAGGACTCAAAGAGGAACAATTCAGAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja1409_c09.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_194057



Insert Size:	903 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).
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_194057.2 , NP_918946.2
RefSeq Size:	903 bp
RefSeq ORF:	903 bp
Locus ID:	233081
UniProt ID:	Q76JU9
Cytogenetics:	7 B1
Gene Summary:	G-protein coupled receptor for medium and long chain saturated and unsaturated fatty acids that plays an important role in glucose homeostasis. Fatty acid binding increases glucose-stimulated insulin secretion, and may also enhance the secretion of glucagon-like peptide 1 (GLP-1). May also play a role in bone homeostasis; receptor signaling activates pathways that inhibit osteoclast differentiation (PubMed:23335512). Ligand binding leads to a conformation change that triggers signaling via G-proteins that activate phospholipase C, leading to an increase of the intracellular calcium concentration. Seems to act through a G(q) and G(i)-mediated pathway.[UniProtKB/Swiss-Prot Function]