

Product datasheet for **MG205527**

Ffar4 (NM_181748) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ffar4 (NM_181748) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ffar4
Synonyms:	AI552415; Gpr120; Gpr129; GT01; KPG_013; O3far1; Pgr4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205527 representing NM_181748 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCCTGAGTGTGCACAGACGACGGGCCCTGGCCCTCGCACACCCTGGACCAAGTCAATCGCACCC
ACTTCCCTTTCTTCTCGGATGTCAAGGGCGACCACCGTTGGTGTGAGCGTCGTGGAGACCACCGTTCT
GGGGCTCATCTTTGTCGCTCACTGCTGGGCAACGTGTGTCTAGTGTGGTGGCGCCGTCGGCGC
CGTGGGGCGACGCCAGCCTGGTCTCAACCTCTTCTGCGGGATTTGCTCTTACCAGCGCCATCCCTC
TAGTGCTCGTCGTGCGCTGGACTGAGGCCTGGCTGTTGGGGCCCGTCGTCTGCCACCTGCTTTCTACGT
GATGACAATGAGCGGCAGCGTCACGATCCTCACACTGGCCGCGGTACGCTGGAGCGCATGGTGTGCATC
GTGCGCCTCCGGCGCGGCTTGAGCGGCCGGGGCGGCGGACTCAGCGCGCACTGCTGGCTTTTATATGGG
GTTACTCGGCGCTCGCCGCGCTGCCCTCTGCATCTTGTCCGCGTGGTCCCGCAGCGCCTTCCCGGCGG
GGACCAGGAAATCCGATTTGCACATTGGATTGGCCCAACCGCATAGGAGAAATCTATGGGATGTGTTT
TTTGTGACTTTGAACTTCTGGTGGCGGACTGGTCATTGTGATCAGTTACTCCAAAATTTACAGATCA
CGAAAGCATCGCGGAAGAGGCTTACGCTGAGCTGGCATACTCTGAGAGCCACCAGATCCGAGTGTCCCA
ACAAGACTACCGACTCTCCGCACGCTCTTCTGCTCATGGTTTCTTCTTATCATGTGGAGTCCCATC
ATCATCACCATCCTCATCTTGATCCAAAACCTCCGGCAGGACCTGGTATCTGGCCATCCCTTTTCT
TCTGGGTGGTGGCCTTACGTTTGCCAACTCTGCCCTAAACCCATACTGTACAACATGTCGCTGTTTCA
GAACGAATGGAGGAAGATTTTTTGTGCTTCTTTTTTCCAGAGAAGGGAGCCATTTTTACAGACACGCTC
GTCAGGCGAAATGACTTGTCTGTTATTTCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205527 representing NM_181748
 Red=Cloning site Green=Tags(s)

MSPECAQTTGPGPSHTLDQVNRTHFPFFSDVKGDHRLVLSVVETTVLGLIFVVSLLGNVICALVLVARRRR
 RGATASLVNLFCADLLFTSAIPLVLRVWTEAWLLGPVVCHLLFYVMTMSGSVTILTLAAVSLERMVCI
 VRLRRGLSGPGRRTQAALLAFIWGYSALAAALPLCILFRVVPQRLPGGDQEIPICITLDWPNRIGEISWDVF
 FVTLNFLVPLVIVISYSKILQITKASRKRLTSLAYSESHQIRVSQQDYRLFRTLFLLMVSFFIMWSP
 IITILLILIQNFRQDLVIWPSLFFWVVAFTFANSALNPILYNMSLFRNEWKIFCCFFPEKGAIIFTDTS
 VRRNDLSVISS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181748

ORF Size: 1083 bp

OTI Disclaimer: 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:

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_181748.1](#)

RefSeq Size: 1393 bp

RefSeq ORF: 1086 bp

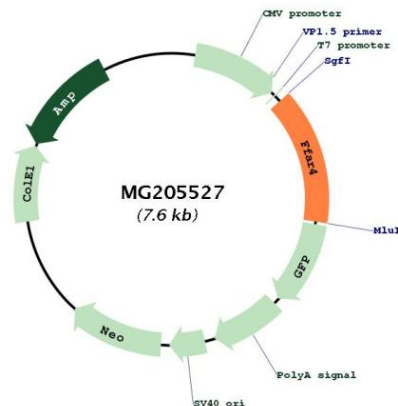
Locus ID: 107221

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]

Product images:



Circular map for MG205527