

Product datasheet for **RG218854**

MOGAT2 (NM_025098) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MOGAT2 (NM_025098) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MOGAT2
Synonyms: DGAT2L5; DGAT2L5.; hDC5; MGAT2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218854 representing NM_025098
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

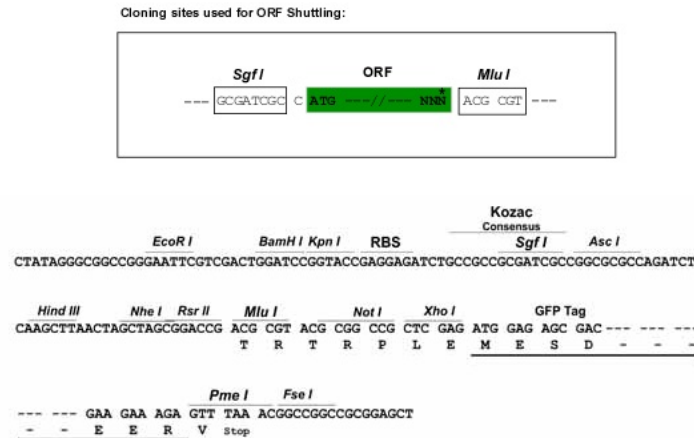
ATGGTAGAGTTCGCGCCCTTGTTTATGCCGTGGGAGCGCAGGCTGCAGACACTTGCTGTCTACAGTTTG
 TCTTCTCCTTCTGGCACTGGCCGAGATCTGCACTGTGGGCTTCATAGCCCTCCTGTTTACAAGATTCTG
 GCTCCTCACTGTCCTGTATGCGGCTGGTGGTATCTGGACCGAGACAAGCCACGGCAGGGGGCCGGCAC
 ATCCAGGCCATCAGGTGCTGGACTATATGGAAGTACATGAAGGACTATTTCCCATCTCGCTGGTCAAGA
 CTGCTGAGCTGGACCCCTCTCGAACTACATTGCGGGCTTCCACCCCATGGAGTCTGGCAGTCGGAGC
 CTTTGCCAACTGTGCACTGAGAGCACAGGCTTCTCTTCGATCTTCCCGGTATCCGCCCATCTGATG
 ATGCTGACCTTGTGGTCCGGGCCCCCTTCTTACAGAGATTACATCATGTCTGCAGGGTGGTCAATCAG
 AAAAGGAGAGTGCTGCTCACATTCTGAACAGGAAGGGTGGCGAAACTTGCTGGGCATCATTGTAGGGGG
 TGCCCAGGAGGCCCTGGATGCCAGGCCTGGATCCTTACGCTGTTACTGCGGAACCGAAAGGGCTTCGTC
 AGGCTCGCCCTGACACACGGGGCACCCCTGGTGCCAACTTCTCCTTTCGGGAGAAATGACCTATTTGACC
 AGATTCCTCACTCTTCTGGCTCCTGGTACGCTATATCCAGAATCGTTGCGAGAAGATCATGGGCATCTC
 CCTCCCACTCTTTCATGGCCGTGGTGTCTTCCAGTACAGCTTTGGTTTAAATCCCTACCGCCGCCCATC
 ACCACTGTGGTGGGAAGCCCATCGAGGTACAGAAGACGCTGCATCCCTCGGAGGAGGAGTGAACCAGC
 TGACCAGCGTTATATCAAAGAGCTGTGCAACCTCTTCGAGGCCACAACTTAAGTTCAACATCCCTGTC
 TGACCAGCACTTGAGTTCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_025098

ORF Size: 1002 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_025098.4](#)

RefSeq Size: 1005 bp

RefSeq ORF: 1005 bp

Locus ID: 80168

UniProt ID: [Q3SYC2](#)

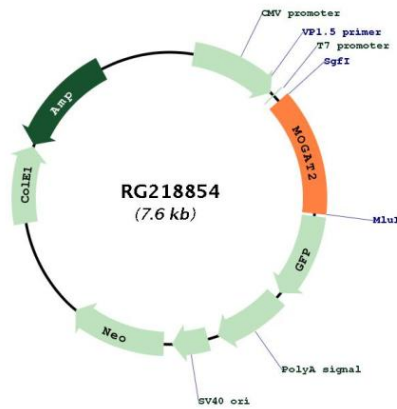
Cytogenetics: 11q13.5

Domains: DAGAT

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is an enzyme that catalyzes the synthesis of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. The encoded protein is important in the uptake of dietary fat by the small intestine. This protein forms a complex with diacylglycerol O-acyltransferase 2 in the endoplasmic reticulum, and this complex catalyzes the synthesis of triacylglycerol. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG218854