

## Product datasheet for **MG204967**

### Mogat1 (BC106135) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mogat1 (BC106135) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mogat1
Synonyms:	mDC2, Dgat2l, MGAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204967 representing BC106135 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGTCGAGTTCGCGCCACTCAACACCCCGCTGGCACGGTGCCTACAGACCGCTGCGGTGCTGCAGT  
GGGTCCTGCTCCTCCTCCTGCTCGTGCAGGTGTGCATTGGAATTATGGTGATGCTGGTCTGTACA  
TTGGTTCCTTTACATCCCATATCTGGTCTGGTTTTACTATGACTGGAGAACCCAGAGCAAGGAGGCAGA  
AGATGGAAGTGGTCCAAAGCTGGCCTGTGTGGAAGTATTTAAGGAGTATTTCCAATCTGTCTTGCA  
AAACGCAGGATTTGGATCCGGTCAACAATTATATATTTGGGTTTACCCTCATGGAATATTCGTGCCTGG  
AGCCTTTGGAAATTTTTGTACAAAATACTCGGACTTCAAGAAGCTATTTCTGGCTTTACATCGTATCTC  
CACGTGGCCAAGATCTGGTTCTGTTCCCGTTGTTCCGAGAATATCTGATGAGTAACGGGCCGGTTTCAG  
TGTCTAAGGAGAGTTTGTCTCATGTGCTGAGCAAGGATGGAGGTGGCAATGTCTCAATCATTGTCCTCGG  
AGGTGCAAAGGAGGCGCTGGAGGCTCACCCAGGAACATTCACCCTGTGCATCCGCCAGCGCAAAGGGTTT  
GTTAAGATGGCCTTGACCCATGGTGCCAGTTTGGTCCAGTATTTCTTTGGTAAAAATGATCTATATA  
AGCAAATTAACAACCCCAAGGCTCCTGGCTACGAACTATACAAGACGCAATGTATGATTCAATGGGAGT  
AGCCTTGCCACTGATATATGCCAGAGGAATTTCCAGCACTACTTTGGCATAATGCCCTATCGGAAGCTG  
ATCTACACTGTTGTTGGCCGCCATCCCTGTTCCAGCAGATTCTGAACCCGACCTCAGAGCAGATTGAAG  
AGCTGCATCAGACATACCTAGAGGAGCTAAAGAACTATTCATGAACACAAAGGAAATATGGGATTCC  
GGAGCACGAAACTCTGGTATTTAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204967 representing BC106135  
 Red=Cloning site Green=Tags(s)

MMVEFAPLNTPLARCLQTA AVLQWVLSFLLL VQVCIGIMVMLVL YNYWFLYIPYL VWFYDWRTP EQGGR  
 RWNWVQSWPVWYFKEYFPICLVKTQDLDPGHNYIFGFHPHGIFVPGAFGNFCTKYSDFKKLFPGFTSYL  
 HVAKIWF CFPLFREYLSNGPVSVSKESSL SHVLSKDGGNVSIIVLGGAKEALEAHPGTFTLCIRQRKGF  
 VKMALTHGASLVPVFSFGENDLYKQINNPKG SWLRTIQDAMYDSMGVALPLIYARGIFQHYFGIMPYRKL  
 IYTVVGRPIPVQQILNPTSEQIEELHQTYLEELK KLFNEHKGKYGIPEHETLVFK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC106135

**ORF Size:** 1007 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:** [BC106135](#), [AAI06136](#)

**RefSeq Size:** 1180 bp

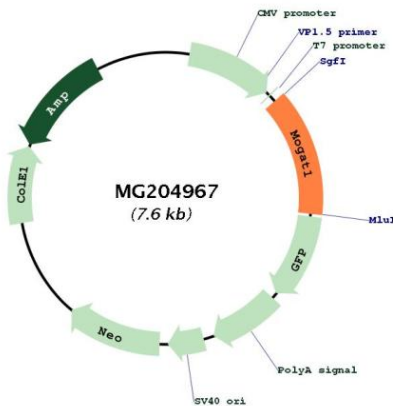
**RefSeq ORF:** 1007 bp

**Locus ID:** 68393

**Cytogenetics:** 1 C4

**Gene Summary:** Catalyzes the formation of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. Probably not involved in absorption of dietary fat in the small intestine.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG204967