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Product datasheet for MG204945

Mogat2 (NM_177448) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mogat2 (NM_177448) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mogat2
Synonyms:	DGAT2L5; Mgat1l; MGAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204945 representing NM_177448
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGAGTTCGCCCCCCTGTTGGTACCATGGGAGCGCAGGTTACAGACCTTCGCGGTCCTTCAGTGGG
TCTTCTCCTTCCTGGCCTTGGCCCAGCTCTGCATCGTCATCTTCGTAGGCCTCCTATTCACAAGGTTCTG
GCTCTTCTCTGTCCTGTATGCCACCTGGTGGTACCTGGACTGGGACAAGCCGCGGCAGGGAGGCCGGCCC
ATCCAGTTCTTCAGACGCTTGGCCATATGGAAGTACATGAAGGATTATTTCCCTGTCTCTTTGGTCAAGA
CAGCTGAGCTGGACCCTTCCCGGAACTACATCGCGGGCTTCCACCCCCATGGAGTCCTAGCAGCTGGAGC
CTTTCTTAACCTGTGCACTGAAAGCACGGGCTTTACCTCGCTTTTCCCGGGCATCCGCTCCTATCTGATG
ATGCTGACTGTGTGGTTCCGGGCCCCCTTCTTCCGAGATTACATCATGTCTGGGGGGCTGGTCTCATCAG
AAAAGGTGAGTGCCGATCACATTCTGTCCAGGAAGGGCGGCGGGAACTTGCTTGCCATCATCGTTGGGGG
CGCACAGGAGGCACTGGACGCCAGGCCTGGAGCCTACAGGCTGCTGCTGAAGAATCGCAAGGGCTTCATC
AGGCTCGCCCTGATGCATGGGGCAGCTCTTGTGCCAATCTTCTCCTTTGGAGAAAACAACCTGTTCAACC
AGGTTGAGAACACCCCTGGTACCTGGCTGCGCTGGATCCAGAACCGGCTACAGAAGATCATGGGCATCTC
CCTCCCTCTCTTCCACGGCAGAGGTGTCTTCCAGTACAGCTTTGGCCTCATGCCCTTCCGCCAGCCCATC
ACCACCATAGTGGGGAAGCCCATCGAGGTGCAGATGACACCACAGCCCTCAAGGGAGGAGGTGGACCGGC
TTCATCAGCGCTATATCAAGGAGCTCTGCAAGCTCTTTGAGGAGCACAAACTCAAGTTCAACGTCCCTGA
GGACCAGCATCTGGAGTTCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

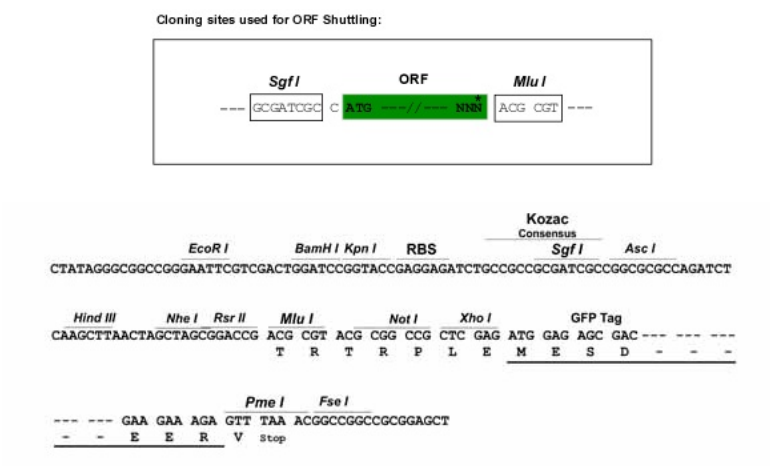
>MG204945 representing NM_177448
Red=Cloning site Green=Tags(s)

MVEFAPLLVPWERRLQTFAVLQWVFSFLALAQLCIVIFVGLLFTRFWLFSVLYATWWYLDWDKPRQGGRP
IQFFRRLAIWKYMKDYFPVSLVKTAELDPSRNYIAGFHPHGVLAAGAFLNLCTESTGFTSLFPGIRSYLM
MLTVWFRAPFFRDYIMSGGLVSSEKVSADHILSRKGGGNLLAIIVGGAQEALDARPGAYRLLLKNRKGFI
RLALMHGAALVPIFSFGENNLFNQVENTPGTWLRWIQNRLQKIMGISLPLFHGRGVFQYSFGLMPFRQPI
TTIVGKPIEVQMTPQPSREEVDRLHQRYIKELCKLFEEHKLKFNVPEDQHLEFC

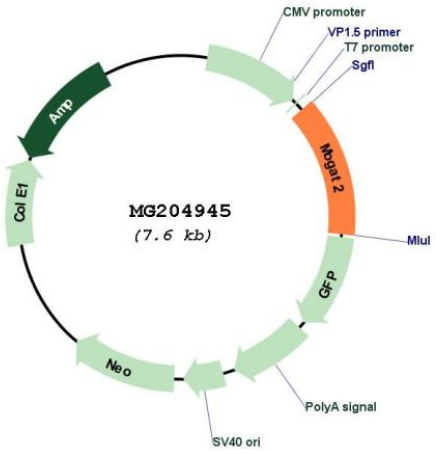
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177448

ORF Size: 1784 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_177448.3
RefSeq Size:	1839 bp
RefSeq ORF:	1005 bp
Locus ID:	233549
UniProt ID:	Q80W94
Cytogenetics:	7 E1
Gene Summary:	Catalyzes the formation of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. Has a preference toward monoacylglycerols containing unsaturated fatty acids in an order of C18:3 > C18:2 > C18:1 > C18:0. Plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes. May play a role in diet-induced obesity.[UniProtKB/Swiss-Prot Function]