

Product datasheet for **MC204765**

Mogat2 (NM_177448) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mogat2 (NM_177448) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mogat2
Synonyms:	DGAT2L5; Mgat1l; MGAT2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC052831
AAGAGGTAATCCGCAAAGCCCGTGTGTAGAGCCTCCTGAGCCAGCTCAGCATGGTGGAGTTCGCCCCCT
GTTGGTACCATGGGAGCGCAGGTTACAGACCTTCGCGGTCTTCAGTGGGTCTTCTCCTTCTGCGCTTG
GCCAGCTCTGCATCGTCATCTTCGTAGGCCTCTATTACAAGTTCTGGCTCTTCTGTCTGTATG
CCACCTGGTGGTACCTGGACTGGACAAGCCGCGCAGGAGGCCGCCCCATCCAGTTCTCAGACGCTT
GGCCATATGGAAGTACATGAAGGATTATTTCCCTGTCTCTTTGGTCAAGACAGCTGAGCTGGACCTTCC
CGGAATACATCGCGGGCTTCCACCCCATGGAGTCTAGCAGCTGGAGCCTTTTAACTGTGCACTG
AAAGCACGGGCTTACCTCGCTTTTCCCGGCATCCGCTCCTATCTGATGATGCTGACTGTGTGGTTCCG
GGCCCCCTTCTCCGAGATTACATCATGTCTGGGGGGCTGGTCTCATCAGAAAAGGTGAGTGCCGATCAC
ATTCTGTCCAGGAAGGGCGCGGAACTTGCTTGCCATCATCGTTGGGGCGCACAGGAGGCACTGGACG
CCAGGCCCTGGAGCCTACAGGCTGCTGCTGAAGAATCGAAGGGCTTCATCAGGCTCGCCCTGATGCATGG
GGCAGCTCTTGTCCAATCTTCTCCTTTGGAGAAAACAACCTGTTCAACCAGGTTGAGAACCCTTGGT
ACCTGGCTGCGCTGGATCCAGAACCGGCTACAGAAGATCATGGGCATCTCCCTCCCTCTCTCCACGGCA
GAGGTGTCTTCCAGTACAGCTTTGGCCTCATGCCCTCCGCCAGCCCATACCACCATAGTGGGGAAGCC
CATCGAGGTGCAGATGACACCACAGCCCTCAAGGGAGGAGGTGGACCGGCTTCATCAGCGCTATATCAAG
GAGCTCTGCAAGCTCTTTGAGGAGCACAACTCAAGTTCAACGTCCCTGAGGACCAGCATCTGGAGTTCT
GCTAAGTGTCTCCAGCCGGAAGACAGCTGCATCTGAGCGCTGCAGGAGTGTGGGATTAGGGGGACTTCC
ACAGCCACCAGACTCCTACAACTAGCCACAAGTGAAGAGGGGGCAGCTCCTAATCCT
GGGATTTGAACCTGTAGCCAAAGCTCTGAGGTCTCCCTGTCTTGGCCTGTCTGCACATCTGTAGAATGG
GGGAAAAGCAGTCAGAGAGAAATTCCTGAGGTCTTCCACAGTTGTAATGTCATTCAAACATGACCAA
AGGACAAAACAGGGAGAAAGAGAACAACCTGTTCTTCTACCTTCCAGGACAGTGAAGAGAAGCCA
GCACCCAGGCCCTCCCTGTGCATGGTCCCTGATGCTGCTTCTCCCTCTGAGGACAGAGCGGGGAGCCAA
GTCTGCCCTGGCACCTACTCTATGTTTCTCAGATTCTGGTCCCTGAGCTATGATACCAAAGGAGCC
AGAAGGCAGATAAGGAGGGCAGGGTCACTGACTATGACCGAGGGTAGGTCTCCTTCCCATATCCTGAGC
CTCAGTTTCCCGCCTAATGACCTGGGAGCGCCACACTGCTCACCACAGGCTCCACCAGAGAGCCT
CTTACTCATGCTTTCTAGTGAACCTCCAGCCTCTGTCTTGGCACTGAAGGGCAGCACTGTACATGTTACCT
CAATAAATGAAAGGAGTCTGTCTTAAA
AAAAAAAAAAAAAAAAAAAAAAG

Restriction Sites: RsrII-NotI

ACCN: NM_177448

Insert Size: 1005 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:

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: [BC052831](#), [AAH52831](#)

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]