

Product datasheet for **RC237148**

MOGAT3 (NM_001287147) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MOGAT3 (NM_001287147) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MOGAT3
Synonyms: DC7; DGAT2L2; MGAT3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237148 representing NM_001287147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGTTGCCACAACCCTGCAGCCCCCAACCACTTCCAAAACCTTGCAGAAGCAGCATCTAGAAGCAG
TGGGCGCCTACCAATATGTGCTCACTTTCTCTTCATGGGCCCTTCTTCTCCCTTCTTGTCTTTGTCTCT
CCTCTTACGTCACCTCTGGCCCTTCTCTGTTTTTACTTGGTGTGGCTCTATGTGGACTGGGACACACCC
AACCAAGGTGGAAGGCGTTCGGAGTGGATAAGGAACCGGCAATTTGGAGACAACAAAGGATTATTATC
CTGTCAAGCTGGTGAAAACAGCAGAGCTGCCCCGGATCGGAACACTCGTGTGGGCGCCACCCTCATGG
GATCATGTGTACAGGCTTCTCTGTAATTTCTCCACCGAGAGCAATGGCTTCTCCAGCTCTTCCCGGGG
CTCCGGCCCTGGTTAGCCGTGCTGGCTGGCCTTCTCTACCTCCCGGTCTATCGGACTACATCATGTCT
TTGGACTCTGTCCGGTGAGCCGCCAGAGCCTGGACTTCATCTGTCCCAGCCCCAGCTCGGGCAGGCCGT
GGTCATCATGGTGGGGGTGCGCACGAGGCCGTATTTCAGTCCCCGGGGAGCACTGCCTTACGCTCCAG
AAGCGCAAAGGCTTCGTGCGCTGGCGCTGAGGCACGGTGGGCCGCCCATCCCCGTCCCCAGCGCCTC
CACCCCACCGAGGAGGAAGTCAATCACTATCACGCCCTACATGACGGCCCTGGAGCAGCTCTTCGAGG
AGCACAAAGAAAGCTGTGGGTCCCCGCTTCCACCTGCCTCACCTTCATCTAGGCCTGGCCGCGGCCCTT
CGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237148 representing NM_001287147
 Red=Cloning site Green=Tags(s)

MGVATTLPPTTSKTLQKQHLEAVGAYQYVLTFLFMGPPFSLLVFVLLFTSLWPFVVFYLVWLYVDWDTP
 NQGRRSEWIRNRAIWRQLRDYYPVKLVKTAELPPDRNYVLGAHPHGIMCTGFLCNFSTESNGFSQLFPG
 LRPWLAVLAGLFYLPVYRDYIMSFGLCPVSRQSLDFILSQPQLGQAVVIMVGAHEALYSVPGEHCLTLQ
 KRKGFVRLALRHGGPPHPRPPAPPPHRRGGSQSLSRPLHDGPGAALRGAQGKLGWPRFHLPHLHLGLAAAF
 R

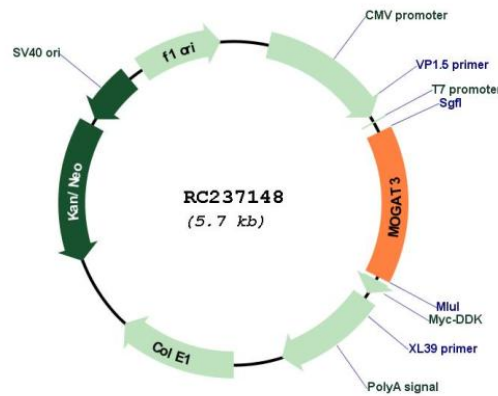
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287147

ORF Size: 843 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:	<ol style="list-style-type: none">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_001287147.2
RefSeq Size:	1207 bp
RefSeq ORF:	846 bp
Locus ID:	346606
UniProt ID:	Q86VF5
Cytogenetics:	7q22.1
Protein Families:	Transmembrane
MW:	31.9 kDa
Gene Summary:	Acyl-CoA:monoacylglycerol acyltransferase (MOGAT; EC 2.3.1.22) catalyzes the synthesis of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA (Cheng et al., 2003 [PubMed 12618427]).[supplied by OMIM, Mar 2008]