

## Product datasheet for RC215498

### MOGAT3 (NM\_178176) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MOGAT3 (NM\_178176) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MOGAT3  
**Synonyms:** DC7; DGAT2L2; MGAT3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC215498 representing NM\_178176  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAGTTGCCACAACCCTGCAGCCCCAACCACTTCCAAAACCTTGCAGAAGCAGCATCTAGAAGCAG  
 TGGGCGCCTACCAATATGTGCTCACTTTCCTCTCATGGGCCCTTCTTCTCCCTTCTTGCTTTGTCTCT  
 CCTTTCACGTCCTCTGGCCCTCTCTGTTTTTACTTGGTGTGGCTCTATGTGGACTGGGACACACCC  
 AACCAAGGTGGAAGGCGTTCGGAGTGGATAAGGAACCGGCAATTTGGAGACAATAAGGGATTATTATC  
 CTGTCAAGCTGGTAAAACAGCAGAGCTGCCCCGGATCGGAACACGTGCTGGGCGCCACCCTCATGG  
 GATCATGTGTACAGGCTTCTCTGTAATTTCTCCACCGAGAGCAATGGCTTCTCCAGCTCTCCCGGG  
 CTCCGGCCCTGGTTAGCCGTGCTGGCTGGCCTTCTACCTCCCGGTCTATCGCGACTACATCATGTCT  
 TTGGACTCTGTCCGGTGAAGCCGAGCCTGGACTTCATCCTGTCCCAGCCCCAGCTCGGGCAGGCCGT  
 GGTATCATGGTGGGGGTGCGCACGAGGCCCTGTATTAGTCCCGGGGAGCACTGCCTTACGCTCCAG  
 AAGCGCAAAGGCTTCGTGCGCCTGGCGCTGAGGCACGGGGCGTCCCTGGTCCCGTGTACTCCTTTGGG  
 AGAATGACATCTTAGACTTAAGGCTTTGCCACAGGCTCCTGGCAGCATTGGTGCCAGCTCACCTTCAA  
 GAAGCTCATGGGCTTCTCTCTTACATCTTCTGGGTGCGGTCTCTTCTCAGCCACCTCCTGGGCGCTG  
 CTGCCCTTTGCTGTGCCATCACCCTGTGGTGGGCCGCCCATCCCCGTCCCCAGCGCCTCCACCCCA  
 CCGAGGAGGAAGTCAATCACTATCACGCCCTCTACATGACGGCCCTGGAGCAGCTCTTCGAGGAGCAAA  
 GGAAAGCTGTGGGTCCCGCTTCCACCTGCCTCACCTTCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC215498 representing NM\_178176  
Red=Cloning site Green=Tags(s)

MGVATTLPPTTSKTLQKQHLEAVGAYQYVLTFLFMGPPFSLLVFVLLFTSLWPFVVFYLVWLYVDWDP  
 NQGRRSEWIRNRAIWRQLRDYYPVKLVKTAELPPDRNYVLGAHPHGIMCTGFLCNFSTESNGFSQLFPG  
 LRPWLAVLAGLFYLPVYRDYIMSFGLCPVSRQSLDFILSQPQLGQAVVIMVGAHEALYSVPGHCLTLQ  
 KRKGFVRLALRHGASLVPVYSFGENDIFRLKAFATGSWQHWCQLTFKKLMGFSPYIFWGRGLFSATSWGL  
 LPFAVPITTVVGRPIPVQRLHPTEEEVNHYHALYMTALEQLFEEHKESGVPASTCLTFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6102\\_f12.zip](https://cdn.origene.com/chromatograms/mk6102_f12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178176

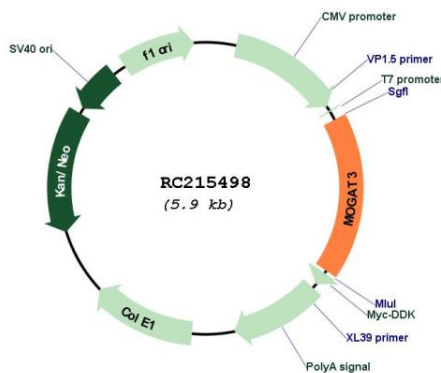
**ORF Size:** 1023 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

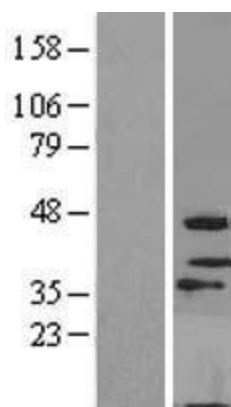
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_178176.4</a></u>
<b>RefSeq Size:</b>	1420 bp
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	346606
<b>UniProt ID:</b>	<u><a href="#">Q86VF5</a></u>
<b>Cytogenetics:</b>	7q22.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	38.5 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RC215498



Western blot validation of overexpression lysate (Cat# [LY406016]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215498 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).