

## Product datasheet for **RG215498**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MOGAT3 (NM\_178176) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MOGAT3  
**Synonyms:** DC7; DGAT2L2; MGAT3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG215498 representing NM\_178176  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAGTTGCCACAACCCTGCAGCCCCAACCACTTCCAAAACCTTGCAGAAGCAGCATCTAGAAGCAG  
 TGGGCGCCTACCAATATGTGCTCACTTTCCTTTCATGGGCCCTTCTTCTCCCTTCTTGCTTTGTCTCT  
 CCTTTCAGTCACTCTGGCCCTTCTGTGTTTTACTTGGTGTGGCTCTATGTGGACTGGGACACACCC  
 AACCAAGGTGGAAGGCGTTCGGAGTGGATAAGGAACCGGGCAATTTGGAGACAACAAAGGGATTATTATC  
 CTGTCAAGCTGGTGAACAGCAGAGCTGCCCGGATCGGAACACGTGCTGGGCGCCACCCTCATGG  
 GATCATGTGTACAGGCTTCTCTGTAATTTCTCCACCGAGAGCAATGGCTTCTCCAGCTTCTCCGGGG  
 CTCCGGCCCTGGTTAGCCGTGCTGGCTGGCCTTCTACCTCCCGGTCTATCGCGACTACATCATGTCTCT  
 TTGGACTCTGTCCGGTGAGCCGCCAGAGCCTGGACTTCATCCTGTCCCAGCCCCAGCTCGGGCAGGCCGT  
 GGTTCATCATGGTGGGGGTGCGCACGAGGCCCTGTATTAGTCCCGGGGAGCACTGCCTTACGCTCCAG  
 AAGCGCAAAGGCTTCGTGCGCCTGGCGCTGAGGCACGGGGCGTCCCTGGTCCCGTGTACTCCTTTGGGG  
 AGAATGACATCTTAGACTTAAGGCTTTGCCACAGGCTCCTGGCAGCATTGGTGCCAGCTCACCTTCAA  
 GAAGCTCATGGGCTTCTCCTTGATCTTCTGGGGTCCGGTCTCTTCTCAGCCACCTCCTGGGCGCTG  
 CTGCCCTTTGCTGTGCCATCACCCTGTGGTGGGCCGCCCATCCCCGTCCCCAGCGCCTCCACCCCA  
 CCGAGGGAAGTCAATCACTATCACGCCCTCTACATGACGGCCCTGGAGCAGCTCTTCGAGGAGACAA  
 GGAAAGCTGTGGGGTCCCGCTTCCACCTGCCTCACCTTCATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215498 representing NM\_178176  
Red=Cloning site Green=Tags(s)

MGVATTLPPTTSKTLQKQHLEAVGAYQYVLTFLFMGPPFSLLVFVLLFTSLWPFVVFYLVWLYVDWDTP  
 NQGRRSEWIRNRAIWRQLRDYYPVKLVKTAELPPDRNYVLGAHPHGIMCTGFLCNFSTESNGFSQLFPG  
 LRPWLAVLAGLFYLPVYRDYIMSFGLCPVSRQSLDFILSQPQLGQAVVIMVGAHEALYSVPGEHCLTLQ  
 KRKGFVRLALRHGASLVPVYSFGENDIFRLKAFATGWSQHWQCQLTFKKLMGFSPCIFWGRGLFSATSWGL  
 LPFAVPIITTVVGRPIVVPQRLHPTTEEVNHYHALYMTALEQLFEEHKESCGVPASTCLTFI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178176

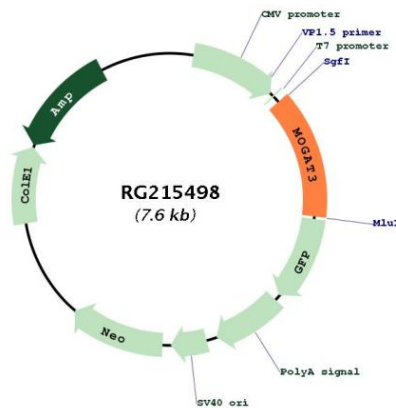
**ORF Size:** 1023 bp

**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](#)

**OTI Annotation:** 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>NM_178176.4</u>
<b>RefSeq Size:</b>	1420 bp
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	346606
<b>UniProt ID:</b>	<u>Q86VF5</u>
<b>Cytogenetics:</b>	7q22.1
<b>Protein Families:</b>	Transmembrane
<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 RG215498