

Product datasheet for **RG213249**

MOGT1 (MOGAT1) (NM_058165) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MOGT1 (MOGAT1) (NM_058165) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MOGAT1 |
| Synonyms: | DGAT2L; DGAT2L1; MGAT1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG213249 representing NM_058165 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGTAGAGTTTGCACCGCTCAACATCCAGCTGGCGCGGGCTGCAGACGGTGGCCGTGCTGCAGT
GGGTCTGAAATACCTGCTGCTCGGGCCGATGTCCATTGGAATCACTGTGATGCTGATCATAACA
TTTGTTCCTTTACATCCCTTATTTGATGTGGCTTACTTTGACTGGCATAACCCAGAGCGAGGAGG
AGATCCAGCTGGATCAAAAATTGGACTCTTTGAAACACTTTAAGGACTATTTCCAATTCATCTTATCA
AAACTCAAGATTTGGATCCAAGTCAACTATATATTTGGGTTTCACCCCATGGAATAATGGCAGTTGG
AGCCTTTGGGAATTTTTCTGTAATTTCTGACTTCAAGGACCTGTTTCTGGCTTTACTTCATATCTT
CACGTGCTGCCACTTTGGTTCTGGTGTCTCTTTCCGAGAATATGTGATGAGTGTGGGCTGGTTTCAG
TTTCCAAGAAAAGTGTGTCTACATGGTAAGCAAGGAGGGAGGTGAAACATCTCTGTCATTGTCCTTGG
GGGTGCAAAAGAATCACTGGATGCTCATCCTGAAAGTTCCTGTTTCCCGCAGCGGAAAGGATTT
GTAAAATTGCTTTGACCCATGGCGCCTCTCTGGTCCCAGTGGTTTCTTTGGTGAATAAAGTGTGTTA
AACAACTGACAACCCTGAAGGATCATGGATTAGAAGTGTTCAGAATAAACTGCAGAAGATCATGGGGTT
TGCTTTGCCCTGTTTCATGCCAGGGGAGTTTTTCAGTACAATTTGGCCTAATGACCTATAGGAAAGCC
ATCCACACTGTTGTTGGCCGCCGATCCCTGTTCTGTCAGACTCTGAACCCGACCCAGGAGCAGATTGAGG
AGTTACATCAGACCTATATGGAGGAACCTAGGAAATTGTTTGAGGAACACAAAGGAAAGTATGCCATTCC
AGAGCACGAGACTCTTGTTTTAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213249 representing NM_058165
Red=Cloning site Green=Tags(s)

MKVEFAPLNIQLARRLQTVAVLQWVLKYLLLGPMISIGITVMLIIHNYLFLYIPYLMWLYFDWHTPERGGR
 RSSWIKNWTLWKHFKDYPFIHLIKTQDLDP SHNYIFGFHPHGIMAVGAFGNFSVNYSDFKDLFPGF TSYL
 HVLPLWFWCPVFREYVMSVGLVSVSKKSVSYMVSKEGGNISVIVLGGAKESLDAHPGKFTLFI RQRKGF
 VKIALTHGASLVPVVSFGENELFKQTDNPEGSWIRTVQNKLQKIMGFALPLFHARGVVFQYNFGLM TYRKA
 IHTVVGRPIPV RQTLNPTQE QIEELHQTYMEELRKL FEEHKGYGIPEHETLVLK

TRTRPLE - GFP Tag - V

Restriction Sites:

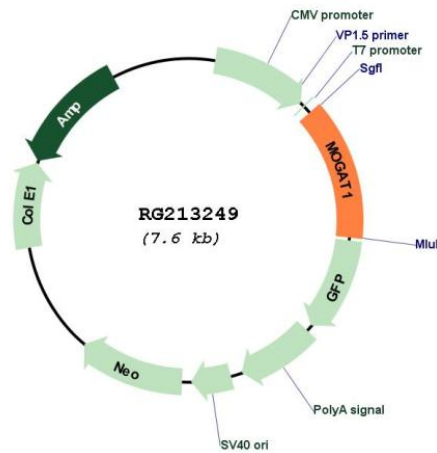
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_058165

ORF Size: 1005 bp

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|-------------------------------|---|
| 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_058165.3 |
| RefSeq Size: | 1096 bp |
| RefSeq ORF: | 1008 bp |
| Locus ID: | 116255 |
| UniProt ID: | Q96PD6 |
| Cytogenetics: | 2q36.1 |
| Protein Families: | Transmembrane |
| Gene Summary: | Acyl-CoA:monoacylglycerol acyltransferase (MOGAT; EC 2.3.1.22) catalyzes the synthesis of diacylglycerols, the precursor of physiologically important lipids such as triacylglycerol and phospholipids (Yen et al., 2002 [PubMed 12077311]).[supplied by OMIM, Mar 2008] |