

## Product datasheet for **RC232538**

### DGAT2 (NM\_001253891) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DGAT2 (NM\_001253891) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DGAT2  
**Synonyms:** ARAT; GS1999FULL; HMFN1045  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232538 representing NM\_001253891  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAGACCTCATAGCCGCTACTCCGGGTCTGCGCGCGAGCGTCAGGCCGAGGCTGACCGGAGCC  
AGCGCTCTCACGGAGGACCTGCGCTGTCGCGCGAGGGTCTGGGAGATGGGAGTGGCTGCAGTGCCAT  
CCTCATGTACATATTCTGCACTGATTGCTGGCTCATCGCTGTGCTCTACTTCACTTGGCTGGTGTGGAC  
TGGAACACACCCAAGAAAGGTGGCAGGAGTACAGTGGTCCGAACTGGGCTGTGTGGCGCTACTTTC  
GAGACTACTTTCCATCCAGCTGGTGAAGACACAACCTGCTGACCACCAGGAATATATCTTTGGATA  
CCACCCCATGGTATCATGGGCCTGGGTGCCTTCTGCAACTTCAGCACAGAGGCCACAGAAGTGAGCAAG  
AAGTTCACAGGCATACGGCCTTACCTGGCTACACTGGCAGGCAACTCCGAATGCCTGTGTTGAGGGAGT  
ACCTGATGTCTGGAGGTATCTGCCCTGTCAGCCGGGACACCATAGACTATTTGCTTTCAAAGAATGGGAG  
TGGCAATGCTATCATCATCGTGGTGGGGTGGCGCTGAGTCTCTGAGCTCCATGCCTGGCAAGAATGCA  
GTCACCTGCGGAACCGCAAGGGCTTTGTAACTGGCCCTGCGTCATGGAGCTGACCTGTTCCATCT  
ACTCCTTTGGAGAGAATGAAGTGTACAAGCAGGTGATCTTCGAGGAGGGCTCCTGGGGCCGATGGGTCCA  
GAAGAAGTTCAGAAATACATTGGTTTCGCCCATGCATCTCCATGGTCGAGGCCTCTTCTCCTCCGAC  
ACCTGGGGCTGTGCCCCTACTCCAAGCCATCACCCTGTTGTGGGAGAGCCCATCACCATCCCAAGC  
TGGAGCACCAACCCAGCAAGACATCGACCTGTACCACACCATGTACATGGAGGCCCTGGTGAAGCTCTT  
CGACAAGCACAAGACCAAGTTCGGCCTCCCGGAGACTGAGGTCCTGGAGGTGAAC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232538 representing NM\_001253891  
 Red=Cloning site Green=Tags(s)

MKTLIAAYSGVLRGERQAEADRSQRSHGGPALSREGSGRWGVACSAILMYIFCTDCWLIIVYFTWL VFD  
 WNTPKKGRRSQWVRNVAWVRYFRDYFPIQLVKTHNLLTTRNYIFGYHPHGMGLGAFCNFSTEATEVSK  
 KFPGIRPYLATLAGNFRMPVLRREYLMSSGGICPVSRDTIDYLLSKNGSGNAIIIVGGAAESLSSMPGKNA  
 VTLRNRKGFVKLALRHGADLVPIYSFGENEVYKQVIFEEGSGRWVQKKFQKYIGFAPCIFHGRGLFSSD  
 TWGLVPYSKPITTVVGEPIITIPKLEHPTQQDIDLYHTMYMEALVKLFDKHKTKFGLPETEVLEVN

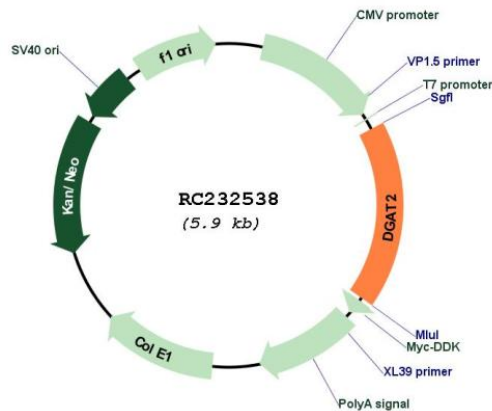
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001253891

**ORF Size:** 1035 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_001253891.1</a> , <a href="#">NP_001240820.1</a>
<b>RefSeq Size:</b>	2336 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	84649
<b>UniProt ID:</b>	<a href="#">Q96PD7</a>
<b>Cytogenetics:</b>	11q13.5
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycerolipid metabolism, Metabolic pathways, Retinol metabolism
<b>MW:</b>	39.5 kDa
<b>Gene Summary:</b>	This gene encodes one of two enzymes which catalyzes the final reaction in the synthesis of triglycerides in which diacylglycerol is covalently bound to long chain fatty acyl-CoAs. The encoded protein catalyzes this reaction at low concentrations of magnesium chloride while the other enzyme has high activity at high concentrations of magnesium chloride. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]