

## Product datasheet for **SC322441**

### DGAT2 (NM\_032564) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DGAT2 (NM\_032564) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DGAT2  
**Synonyms:** ARAT; GS1999FULL; HMFN1045  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322441  
GAGGTGATAAAGTGTTCGCTCCGGGACGCCAGCGCCGGCTGCCGCCTCTGCTGGGGT  
CTAGGCTGTTTCTCTCGGCCACCACTGGCCGCCGGCCGAGCTCCAGGTGTCTAGCCG  
CCCAGCCTCGACGCCGTCCCGGGACCCCTGTGCTCTGCGCGAAGCCCTGGCCCGGGGGC  
CGGGCATGGGCCAGGGCGCGGGTGAAGCGGCTTCCCGGGGCCGTGACTGGCGGG  
CTTCAGCCATGAAGACCCTCATAGCCGCTACTCCGGGTCTGCGCGGCGAGCGTCAGG  
CCGAGGCTGACCGGAGCCAGCGCTCTCACGGAGGACCTGCGCTGTGCGCGAGGGGTCTG  
GGAGATGGGGCACTGGATCCAGCATCCTCTCCGCCCTCCAGGACCTTTCTGTCACT  
GGCTCAATAGGTCCAAGGTGAAAAGCAGCTACAGGTATCTCAGTGCTCCAGTGGGTCC  
TGTCTTCTTGTACTGGGAGTGGCCTGCAGTGCCATCCTCATGTACATATTCTGCACTG  
ATTGCTGGCTCATCGCTGTGCTCTACTTCACTTGGCTGGTGTGTTGACTGGAACACACCCA  
AGAAAGGTGGCAGGAGGTCACAGTGGGTCCGAAACTGGGCTGTGTGGCGCTACTTTCGAG  
ACTACTTTCCCATCCAGTGGTGAAGACACACAACCTGCTGACCACCAGGAACTATATCT  
TTGGATACCACCCCATGGTATCATGGGCTGGGTGCCTTCTGCAACTTCAGCACAGAGG  
CCACAGAAGTGAGCAAGAAGTTCACAGGCATACGGCCTTACCTGGCTACACTGGCAGGCA  
ACTTCCGAATGCCTGTGTTGAGGGAGTACCTGATGTCTGGAGGTATCTGCCCTGTGAGCC  
GGGACACCATAGACTATTTGCTTCAAAGAATGGGAGTGGCAATGCTATCATCATCGTGG  
TCGGGGGTGCGGCTGAGTCTCTGAGCTCCATGCCTGGCAAGAATGCAGTACCCTGCGGA  
ACCGCAAGGGCTTTGTGAAACTGGCCCTGCGTCATGGAGCTGACCTGGTCCCATCTACT  
CCTTTGGAGAGAATGAAGTGTACAAGCAGGTGATCTTCGAGGAGGCTCCTGGGGCCGAT  
GGTCCAGAAGAAGTTCAGAAAATACATTGGTTTCGCCCCATGCATCTTCCATGGTTCGAG  
GCCTCTTCTCCTCCGACACCTGGGGCTGGTGCCTACTCCAAGCCATCACCCTGTTG  
TGGGAGAGCCCATCACCATCCCCAAGCTGGAGCACCCAACCCAGCAAGACATCGACCTGT  
ACCACACCATGTACATGGAGGCCCTGGTGAAGCTTTCGACAAGCACAAGACCAAGTTTCG  
GCCTCCCGGAGACTGAGGTCTGGAGGTGAACTGAGCCAGCCTTCGGGGCCAATTCCTG  
GAGGAACCAGCTGCAAACTCACTTTTTGCTCTGTAATTTGGAAGTGCATGGGTGTCTG  
TGGGTTATTTAAAGAAATTATAACAATTTTGCTAAACCAAAAAAAAAAAAAAAAAA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_032564
<b>Insert Size:</b>	1600 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
<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_032564.2</a></u> , <u><a href="#">NP_115953.2</a></u>
<b>RefSeq Size:</b>	2439 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	84649
<b>UniProt ID:</b>	<u><a href="#">Q96PD7</a></u>
<b>Cytogenetics:</b>	11q13.5
<b>Domains:</b>	DAGAT
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycerolipid metabolism, Metabolic pathways, Retinol metabolism
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).</p>