

Product datasheet for **SC115583**

DGAT1 (NM_012079) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGAT1 (NM_012079) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGAT1
Synonyms:	ARAT; ARGP1; DGAT; DIAR7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012079, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGACCGCGCAGCTCCCGCGCCGGAGGACAGGGTCGCGGCCCTCGAGCCACGGCGCGGGGGC
CTGCGGGCGCGGAAGAGGAGGTGCGGGACGCCGCTGCGGGCCCCGACGTGGGAGCCGCGGGGACGCGCC
AGCCCCGGCCCCAACAAAGGACGGAGACGCCGGCTGGGACGGCCACTGGGAGCTGAGGTGCCATCGC
CTGCAGGATTCTTTATTAGCTCTGACAGTGGCTTACGCAACTACCGTGGCATCCTGAACTGGTGTGTGG
TGATGCTGATCTTGAGCAATGCCGGTTATTTCTGGAGAACCTCATCAAGTATGGCATCCTGGTGGACCC
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AATGTCTTTGCTGTGGCTGCATTCCAGGTTGAGAAGCGCCTGGCGGTGGGTGCCCTGACGGAGCAGGCGG
GACTGCTGCTGCACGTGGCCAACCTGGCCACCATTCTGTGTTTCCAGCGGCTGTGGTCTTACTGGTTGA
GTCTATCACTCCAGTGGGCTCCCTGCTGGCGCTGATGGCGCACACCATCCTCTTCTCAAGCTCTTCTCC
TACCGCGACGCTCAACTCATGGTGGCGCAGGGCCAGGGCCAAGGCTGCCTCTGCAGGGAAGAAGGCCAGCA
GTGCTGCTGCCCCGCACACCGTGAGCTACCCGGACAATCTGACCTACCGCGATCTCTACTACTTCTCTT
CGCCCCACCTTGTGCTACGAGCTCAACTTTCCCCGCTCTCCCCGCATCCGGAAGCGCTTTCTGTGCGA
CGGATCCTTGAGATGCTGTTCTTCAACCAGCTCCAGGTGGGGTGATCCAGCAGTGGATGGTCCCCACCA
TCCAGAACTCCATGAAGCCCTCAAGGACATGGACTACTACGCATCATCGAGCGCCTCCTGAAGCTGGC
GGTCCCCAATCACCTCATCTGGCTCATCTTCTTACTGGCTTCCACTCCTGCCTGAATGCCGTGGCT
GAGCTCATGCAGTTTGGAGACCGGGATTCTACCGGGACTGGTGGAACTCCGAGTCTGTACACTACTTCT
GGCAGAACTGGAACATCCCTGTGCACAAGTGGTGCATCAGACACTTCTACAAGCCATGTTTCGACGGGG
CAGCAGCAAGTGGATGGCCAGGACAGGGGTGTTCTGGCCTCGGCCTTCTCCACGAGTACCTGGTGGAGC
GTCCCTCTGCGAATGTTCCGCTCTGGGCGTTCACGGGCATGATGGCTCAGATCCCACTGGCCTGGTTGC
TGGGCGCTTTTTCCAGGGCAACTATGGCAACGCAGCTGTGTGGCTGTGCTCATCATCGGACAGCCAAT
AGCCGCTCATGTACGTCCACGACTACTAGTGTCAACTATGAGGCCCCAGCGGCAGAGGCCTGA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012079 unedited CACCATTATGTAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGAGCAACGC AGCCGTTGTCCTTGAGGCCGACGGGCCTGACGCGGGCGGGTTGAACGCGCTGGTGAAGCG GTCACCCGGGCTACGGCGGCCGGCAGGGGGCAGTGGCGGCCGTTGTCTAGGGCCCGGAGG TGGGGCCGCGCCTCGGGCGCTACGAACCCGGCGGGCCACGCTTGGCTGCGGCCGGGT CGCGGCTGAGGCCATGGGCGACCGCGGCAGTCCCGCGCCGGAGGACAGGGTCGCGGCTGC CTCGAGCCACGGCGGGCGGGCCTGCGCGGGCGGAAGAGGAGGTGCGGGACGCCGCTGC GGGCCCGACGTGGGAGCCGCGGGGACGCGCCAGCCCGCCCAACAAGGACGGGAGA CGCCGGCGTGGGACGGCCACTGGGAGCTGAGGTGCCATCGCCTGCAGGATTCTTTATT CAGCTCTGACAGTGGCTTACGCAACTACCGTGGCATCCTGAACTGGTGTGTGGTATGCT GATCTTGAGCAATGCCCGTTATTTCTGGAGAACCCTCATCAAGTATGGCATCCTGGTGA CCCCATCCAGGTGGTTTCTGTTCCTGAAGGATCCCTATAGCTGGCCCGCCCATGCT GGTATTGCGCCAATGTCTTTGCTGTGGCTGCATTCCAGTTGAGAAGCGCCTGGCGGT GGGTGCCCTGACCGAGCAGGCGGGACTGCTGCTGCACGTGGCCAACTGGCCACCATTCT GTGTTCCCGAGCGGCTGGGGTCTACTGTTGAGGCTATCACTCCAGNGGGCTCCCTGC TGCCGCTGATGCCGCACACCATTCTTTCTCAAGCTTTCTCCTACGCGACGCAAATTAT GTTGCCGAAGGCCAGGCCAGGTTGCCTCTGCGGCAAAAGCCANCTGCTGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012079 unedited NTTTTGACTTGNNAACCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTT TTGGCACTGGGCAGCACTTTATTGACACCCTCGGACCCGGGGCAGGGTCAGCAAGACTCC CAGCTGGCATCAAAGTGTCTGGCCTGCTGTCGCCATCCCTGAGGGGTGCAGGACAGAG CCCCATAGGGGCAGAGAGCCTCCCTGGGACCAGAGGAGGATGCTGTGCAGCCAGGCCCA TCCCCAGCACTCGAGGCCTAAGAGGAGAGGTGGGCTCTGGCAGCGGGTGTGAGGTGGCAG TGAGAAACCAGGCCCTCAGGTGCAGCTCAAGCCTCTGCCGCTGGGGCCTCATAGTTGAGC ACGTAGTAGTCGTGGACGTACATGAAGACGGCTATTGGCTGTCCGATGATGAGCGACAGC CACACAGCTGCGTTGCCATAGTTGCCCTGGAAAAAGCGGCCACGAACCAGGCCAGTGGG ATCTGAGCCATCATGCCCGTGAACGCCAGAGGGCGGAACATTCGACAGGGGACGCTCACC AGGTACTCGTGAAGAAGGCCGAGGCCAGGAACACCCCTGCTCCTGGCCATCCACTTGCTG CTGCCCCGTCGAAGCATGGGCTTGTAAGAAGTGTCTGATGCACCACTTGTGCACAGGGAT TTCCAGTTCTGCCAGAAGTAGGTGACAGACTCGGAGTTCACCACTCCCGTAGAACTCC CGTCTCCAAACTGCATGAGCTCAGCCACGGCATTTCANGCANGAGTGAAGAGCCAGTAN AAAGAGATGAGCCAGATGAGGTGATTGGGGACCGCCAGCTTCANGAGGGCTCGATGATG CGTGAGTAGTCCATGTCCCTGAANGGCCTCATGGNAGTCTGGATGGTGGGGACCATNCT GCTGNATACCCCNACTGNAGCTGGNTGAGACAGCATCTCAGGA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_012079
Insert Size:	2320 bp
OTI Disclaimer:	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).
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:

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_012079.2](#), [NP_036211.1](#)

RefSeq Size: 1976 bp

RefSeq ORF: 1467 bp

Locus ID: 8694

UniProt ID: [O75907](#)

Cytogenetics: 8q24.3

Domains: MBOAT

Protein Families: Transmembrane

Protein Pathways: Glycerolipid metabolism, Metabolic pathways, Retinol metabolism

Gene Summary: This gene encodes an multipass transmembrane protein that functions as a key metabolic enzyme. The encoded protein catalyzes the conversion of diacylglycerol and fatty acyl CoA to triacylglycerol. This enzyme can also transfer acyl CoA to retinol. Activity of this protein may be associated with obesity and other metabolic diseases. [provided by RefSeq, Jul 2013]