

Product datasheet for **SC104559**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC104559 sequence for NM_032564 edited (data generated by NextGen Sequencing)

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ATGAAGACCCCTCATAGCCGCTACTCCGGGGTCTGCGCGGCGAGCGTCAGGCCGAGGCT
GACCGGAGCCAGCGCTCTCACGGAGGACCTGCGCTGTGCGCGGAGGGGCTGTTGGGAGATGG
GGCACTGGATCCAGCATCCTCTCCGCCCTCCAGGACCTTTCTCTGTACCTGGCTCAAT
AGGTCCAAGGTGGAAAAGCAGCTACAGGTCATCTCAGTGTCCAGTGGGTCCTGTCCTTC
CTTGTACTGGGAGTGGCCTGCAGTGCCATCCTCATGTACATATTCTGCACTGATTGCTGG
CTCATCGCTGTGCTCTACTTCACCTGGCTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
GGCAGGAGGTCACAGTGGGTCGAAACTGGGCTGTGTGGCGCTACTTTGAGACTACTTT
CCCATCCAGCTGGTGAAGACACACAACCTGCTGACCACCAGGAATATATCTTTGGATAC
CACCCCATGGTATCATGGGCTGGTGCCTTCTGCAACTTCAGCACAGAGGCCACAGAA
GTGAGCAAGAAGTCCCAGGCATACGGCCTTACCTGGCTACACTGGCAGGCAACTCCGA
ATGCTGTGTTGAGGGAGTACCTGATGTCTGGAGGTATCTGCCCTGTGAGCCGGGACACC
ATAGACTATTTGCTTTCAAAGAATGGGAGTGGCAATGCTATCATCATCGTGGTCCGGGGT
GCGGCTGAGTCTCTGAGCTCCATGCCTGGCAAGAATGCAGTACCCTGCGGAACCGCAAG
GGCTTTGTGAAACTGGCCTGCGTCATGGAGCTGACCTGGTTCATCTACTCCTTTGGA
GAGAATGAAGTGTACAAGCAGGTGATCTTCGAGGAGGGCTCCTGGGGCCGATGGGTCCAG
AAGAAGTCCAGAAATACATTGGTTTCGCCCCATGCATCTCCATGGTCGAGGCCCTTTC
TCCTCCGACACCTGGGGCTGGTGCCTACTCCAAGCCCATACCCTGTTGTGGGAGAG
CCCATCACCATCCCAAGCTGGAGCACCCAACCCAGCAAGACATCGACCTGTACCACACC
ATGTACATGGAGGCCCTGGTGAAGCTCTTCGACAAGCACAAAGACCAAGTTCGGCCTCCCG
GAGACTGAGGTCTGGAGGTGAAGTGA

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Clone variation with respect to NM_032564.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032564 unedited</p> <pre> TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCGTGACTGGGCG GGCTTCAGCCATGAAGACCCTCATAGCCGCCTACTCCGGGGTCTCGCGCGGAGCGTCA GGCCGAGGCTGACCGGAGCCAGCGCTCTCACGGAGGACCTGCGCTGTGCGCGGAGGGGTC TGGGAGATGGGGCACTGGATCCAGCATCCTCTCCGCCCTCCAGGACCTTCTCTGTAC CTGGCTCAATAGGTCCAAGGTGGAAAAGCAGCTACAGGTCATCTCAGTGCTCCAGTGGGT CCTGTCTCCTTGTACTGGGAGTGGCCTGCAGTGCCATCCTCATGTACATATTCTGCAC TGATTGCTGGCTCATCGCTGTGCTCTACTTCACTTGGCTGGTGTGACTGGAACACACC CAAGAAAGGTGGCAGGAGGTACAGTGGGTCCGAAACTGGGCTGTGTGGCGCTACTTTCC AGACTACTTTCCCATCCAGCTGGTGAAGACACACAACCTGCTGACCACCAGGAACTATAT CTTTGGATACCACCCCATGGTATCATGGGCCTGGGTGCCTTCTGCAACTTCAGCACAGA GGCCACAGAAAGTGAAGCAAGAAAGTCCCAGGCATACGGGCTTACCTGGCTACACTGGCAGG CAACTTCCGAATGCCTGTGTTGAGGGAGTACCTGATGTCTGGNAGTATCTGCCCTGCAG CCGGGACACATAGACTATTTGCTTCAAAGAATGGGAGGGGCAATGCTATCATCATCGGG GTCGGGGGGGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032564 unedited</p> <pre> NNNAAAANTTTTCTGNACCGCGCCGCAATCTANGATCGGTTTTTTTTTTTTTTTTTTGG TTTAGCAAAATTTTATAATTTCTTTAAATAACCCACAGACACCCATGACACTTCCAAA TTTACAGAGCAAAAAAGTGATTTGCAGCTGGTTCCTCCAGGGAATTGGCCCCGAAGGCTG GCTCAGTTCACCTCCAGGACCTCAGTCTCCGGGAGGCCGAACCTGGTCTTGTGCTGTGCG AAGAGCTTCACCAGGGCCTCCATGTACATGGTGTGGTACAGGTCGATGTCTTGTGGGTT GGGTGCTCCAGCTTGGGGATGGTGTGATGGGCTCTCCACAACAGTGGTGTGATGGGCTTGGAG TAGGGCACCAGCCCCAGGTGTGNGAGGAGAAGAAGCCTCGACCATGGAGATGCATGGNG CGAAACCATGATTTCTGGACTTCTTTGACCCATCGCCCCAGAGCCTCCTCGAAGATC ACTGCTTGACACTCCATTCTCAAGGAGTNATGGGACCAGGTCAGCTCATGACCAGGCC AGTTTACAAAGCCTTGCGTCCCCAGGTGACTGCATCTTGCAAGGCTGGACTAAAGACTTAC CGGCCCCCACCACATATGATGCATGCCCTCCATTCTTGAAGCAAATATCATGGGTCCGGG TTGCAGCAAATCCTCAAACCTTGGTCTCCCTAAACAGCTTTTGAATTCCTCCATGTAACC AGTAGGGCCTTCCCTGGAACCTTTGCCATTTTGGGCCCTTGGCTAAATGCCAAAGCCCCA GCCCTTATCCCTGGGGGGGATCCAAAATATCCCTGGGGCAAAGTTTGGTTTTTCCCACT GGGGGAAAGTTCCATAAATCGCCCCAGCCATTTGGCCCCGTGGCCCCCCCCCTTTTGGGG GTCACCACACACCCAAAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032564
Insert Size:	1380 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:	<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_032564.2 , NP_115953.2
RefSeq Size:	2439 bp
RefSeq ORF:	1167 bp
Locus ID:	84649
UniProt ID:	Q96PD7
Cytogenetics:	11q13.5
Domains:	DAGAT
Protein Families:	Transmembrane
Protein Pathways:	Glycerolipid metabolism, Metabolic pathways, Retinol metabolism
Gene Summary:	<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>