

Product datasheet for MC200333

Dgat1 (BC003717) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dgat1 (BC003717) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dgat1
Synonyms: ARAT; C75990; D15ErtD23e; Dgat
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC003717
 AGCACGACTGGGCCGCGACGAGGTGCGGGCCGAAGCCATGGGCGACCCGGAGGCGCGGGAAGCTCTCGG
 CGTCGGAGGACCGGCTCGCGGGTTCCGTCCAGGGTGGTAGTGGGCCAAGGTAGAAGAGGACGAGGTGC
 GAGACGCGGCTGTGAGCCCCGACTTGGGCGCCGGGGTGACGCGCGGCTCCGGCTCCAGCCCA
 TACCCGGGACAAAGACGGGCGGACCAGCGTGGGCGACGGCTACTGGGATCTGAGGTGCCATCGTCTGCAA
 GATTCTTTGTTACGCTCAGACAGTGGTTTTCAGCAATTATCGTGGTATCCTGAATTGGTGTGGTATGC
 TGATCCTGAGTAATGCAAGGTTATTTTTAGAGAACCTTATCAAGTATGGCATCCTGGTGGATCCTATCCA
 GGTGGTGTCTCTGTTTCTGAAGGACCCCTACAGCTGGCCTGCCCCATGCGTGATTATTGCATCCAATATT
 TTTGTTGGCTGCATTTAGATTGAGAAGCGCCTGGCAGTGGGTGCCCTGACAGAGCAGATGGGGCTGC
 TGCTACATGTGGTTAACCTGGCCACAATCATCTGCTTCCCAGCAGCTGTGGCCTTACTGGTTGAGTCTAT
 CACTCCAGTGGGTCCGTGTTTGTCTGGCATCATACTCCATCATGTTCCCTCAAGCTTTATCCTACCGG
 GATGTCAACCTGTGGTGCCGCCAGCAAGGGTCAAGGCCAAAGCTGTCTTACAGGAAGAAGGTCAGTG
 GGGCTGTGCCAGCAAGCTGTGAGCTATCCAGACAACCTGACCTACCGAGATCTCTATTACTTCATCTT
 TGCTCCTACTTTGTGTTATGAACTCAACTTTCTCGGTCCCCCGAATACGAAAGCGTTTCTGCTACGA
 CGAGTTCTTGAGATGCTCTTTTTTACCCAGCTTCAAGTGGGGCTGATCCAACAGTGGATGGTCCCTACTA
 TCCAGAATCCATGAAGCCCTTCAAGGATATGGACTATTCACGGATCATTGAGCGTCTCTTAAAGCTGGC
 GGTCCCAACCATCTGATCTGGCTTATCTTCTTATTGGTTTTTCCACTCCTGTCTCAATGCTGTGGCA
 GAGCTTCTGCAGTTTGGAGACCGGAGTTCTACAGAGATTGGTGAATGCTGAGTCTGTACCTACTTTT
 GGCAGAATGGAATATCCCCGTGCACAAGTGGTGCATCAGACACTTCTACAAGCCTATGCTCAGACATGG
 CAGCAGCAAATGGGTGGCCAGGACAGGATTTTTTACCTCAGCCTTCTTCCATGAGTACCTAGTGAGC
 GTTCCCCTGCGGATGTTCCGCTCTGGGCAATCACAGCCATGATGGCTCAGGTCCCACTGGCCTGGATTG
 TGGGCCGATTCTTCCAAGGAACTATGGCAATGCAGCTGTGTGGGTGACACTCATATTGGCAACCGGT
 GGCTGTGCTCATGTATGTCCAGACTACTACGTGCTCACTACGATGCCCAAGTGGGGTCTGAGCTACT
 GCCAAAGGCCAGCCCTCCCTAACCTGGGCTGGAGTTCTGGAGGGTTCTGGCTGCCTGCACACTCCTC
 CTAGTCTGGGAGGCTCTCTGCCCTATGGGCTACTCCTGCTTTGGGGATGGCATTGAAATCTCAGC
 ACTGGTATGAGCCAGTGTGGGAGTCTGTGTTGTCCAGGGCTGAGGGTATCAATAAAGTGTGTCTAAA
 ACCTTAAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	RsrII-NotI
ACCN:	BC003717
Insert Size:	1497 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:	<u>BC003717</u> , <u>AAH03717</u>
RefSeq Size:	1776 bp
RefSeq ORF:	1497 bp
Locus ID:	13350
Cytogenetics:	15 35.99 cM
Gene Summary:	Catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. In contrast to DGAT2 it is not essential for survival. May be involved in VLDL (very low density lipoprotein) assembly. In liver, plays a role in esterifying exogenous fatty acids to glycerol. Functions as the major acyl-CoA retinol acyltransferase (ARAT) in the skin, where it acts to maintain retinoid homeostasis and prevent retinoid toxicity leading to skin and hair disorders.[UniProtKB/Swiss-Prot Function]