

Product datasheet for **RN211358**

Dgat1 (NM_053437) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgat1 (NM_053437) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dgat1
Synonyms:	ARAT; Dgat
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211358 representing NM_053437
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGCGACCCGGAGGGCGGGGAAGCTCTCGGCGTCGACAGACCGGCTCGCGGGTTTCGTCAGGGAG
GTAGTGGGCCAAGGTAGAAGAGGACGAGGTGCGAGAAGCGGCTGTGAGCCCGACTTGGGCGCCGGGG
TGACGCGCCGGCTCCGGCTCCGGCTCCAGCCATACCCGGGACAAAGACCGGCAGACCAGCGTGGGCGAC
GGCCACTGGGAGCTGAGGTGCCATCGTCTGCAAGACTCTTTGTTGAGCTCAGACAGCGGTTTCAGCAATT
ACCGTGGTATCCTGAATTGGTGCCTGGTATGCTGATCCTGAGTAATGCAAGTTATCTTTAGAGAATCT
TATCAAGTATGGCATCCTGGTGGATCCCATCCAGGTGGTGTCTCTGTTTCTGAAGACCCCTACAGCTGG
CCTGCCCATGCTTGATCATTGCATCCAATATCTTTATTGTGGCTACATTCAGATTGAGAAGCGCCTGT
CAGTGGGTGCCCTGACAGAGCAGATGGGCTGCTGCTACATGTGGTTAACCTGGCCACAATTATCTGCTT
CCCAGCAGCTGTGGCCTTACTGGTTGAGTCTATCACTCCAGTGGGTTCCCTGTTTCTGCTGCGCATCATA
TCCATCATCTTCCCAAGCTTTCTTCTACCGGATGTCAATCTGTGGTCCGCCAGCGAAGGGTCAAGG
CCAAAGCTGTGTCTGCAGGGAAGAAGGTGAGTGGGCTGCTGCCAGAACACTGTAAGCTATCCGGACAA
CCTGACCTACCGAGATCTCTATTACTTCATCTTTGCTCCTACTTTGTGTTATGAACTCAACTTTCTCGA
TCCCCCGAATACGAAAGCGCTTCTGCTACGGCGGGTCTTGAGATGCTCTTTTACCCAGCTTCAAG
TGGGGCTGATCCAGCAGTGGATGGTCCCTACTATCCAGAACTCCATGAAGCCCTTCAAGGACATGGACTA
TTCACGAATCATTGAGCGTCTCTTAAAGCTGGCGGTCCCCAACCATCTGATATGGCTCATCTTCTCTAT
TGGCTTTTCCACTCATGTCTCAATGCTGTGGCAGAGCTCCTGCAGTTTGGAGACCGGAGTTCTACAGGG
ACTGGTGAATGCTGAGTCTGTCACTACTTTTGGCAGAACTGGAATATCCCCGTGCACAAGTGGTGCAT
CAGACACTTTTACAAGCCTATGCTCAGACTGGGACGAAACAAATGGATGGCCAGGACTGGGGTCTTTTGG
GCGTCAGCTTTCTTTCATGAGTACCTAGTGAAGTATCCCTGAGGATGTTCCGCCTTTGGGCATTACAG
CAATGATGGCTCAGGTCCACTGGCCTGGATTGTGAACCGCTTCTTCAAGGAACTATGGCAATGCAGC
TGTGTGGGTGACACTCATATTGGGCAACCGGTGGCTGTGCTCATGTATGTCCACGACTACTACGTGCTC
AACTATGATGCCCAAGTGGGGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_053437

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:

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_053437.1](#), [NP_445889.1](#)

RefSeq Size: 1751 bp

RefSeq ORF: 1497 bp

Locus ID: 84497

UniProt ID: [Q9ERM3](#)

Cytogenetics: 7q34

Gene Summary: enzyme that catalyzes the final step of triglyceride synthesis; uses diacylglycerol and fatty acyl CoA as substrates [RGD, Feb 2006]