

Product datasheet for MC210628

Dgat2 (NM_026384) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgat2 (NM_026384) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dgat2
Synonyms:	0610010B06Rik; ARAT; DGAT-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210628 representing NM_026384 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACCCCTCATCGCCGCTACTCCGGGTCTGCGGGTGAGCGTCGGGCGGAAGCTGCCCGCAGCG
AAAACAAGAATAAAGGATCTGCCCTGTCACGCGAGGGTCTGGGCGATGGGCACTGGCTCCAGCATCCT
CTCAGCCCTCAAGACATCTTCTGTACCTGGCTCAACAGATCTAAGTGAAAAACAGCTGCAGGTC
ATCTCAGTACTACAATGGTCTATCCTCCTGGTCTAGGAGTGGCCTGCAGTGTATCCTCATGTACA
CCTTCTGCACAGACTGCTGGCTGATAGCTGTGCTACTTTCACCTGGCTGGCATTGACTGGAACACGCC
CAAGAAAGGTGGCAGGAGATCGCAGTGGGTGCGAACTGGGCCGTGTGGCGCTACTTCCGAGACTTTT
CCCATCCAGCTGGTGAAGACACACAACCTGCTGACCACCAGGAATATATCTTTGGATACCACCCCATG
GCATCATGGGCTGGGTGCCTTCTGTAACCTCAGCACAGAGGCTACTGAAGTCAGCAAGAAGTTTCTGG
CATAAGGCCCTATTTGGCTACGTTGGCTGGTAACTTCCGGATGCCTGTGCTTCCGCGAGTACCTGATGCT
GGAGGCATCTGCCCTGTCAACCGAGACACCATAGACTACTTGCTCTCAAGAATGGGAGTGGCAATGCTA
TCATCATCGTGGTGGGAGGTGCAGCTGAGTCCCTGAGCTCCATGCCTGGCAAGAACGCAGTACCCTGAA
GAACCGCAAAGGCTTTGTGAAGCTGGCCCTGCGCCATGGAGCTGATCTGGTTCCCACTTATTCCTTTGGA
GAGAATGAGGTATACAAGCAGGTGATCTTTGAGGAGGTTCTGGGCGGATGGTCCAGAAGAAGTTCC
AGAAGTATATTGGTTTCGCCCCCTGCATCTTCCATGGCCGAGGCCTTCTCCTCTGACACCTGGGGGCT
GGTGCCCTACTCCAAGCCATCACACCCTCGTGGGGAGCCATCACTGTCCCCAAGCTGGAGCACCCG
ACCCAGAAAGACATCGACCTGTACCATGCCATGTACATGGAGGCCTGGTGAAGCTTTTGACAATCACA
AGACCAAATTTGGCTTCCAGAGACTGAGGTGCTGGAGGTGA**ACTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Chromatograms:	https://cdn.origene.com/chromatograms/ja2401_a01.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_026384
Insert Size:	1167 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_026384.3 , NP_080660.1
RefSeq Size:	2251 bp
RefSeq ORF:	1167 bp
Locus ID:	67800
UniProt ID:	Q9DCV3
Cytogenetics:	7 E1
Gene Summary:	Essential acyltransferase that catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. Required for synthesis and storage of intracellular triglycerides. Probably plays a central role in cytosolic lipid accumulation. In liver, is primarily responsible for incorporating endogenously synthesized fatty acids into triglycerides. Functions also as an acyl-CoA retinol acyltransferase (ARAT) (By similarity).[UniProtKB/Swiss-Prot Function]