

Product datasheet for **RG203920**

DGAT2 (NM_032564) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGAT2 (NM_032564) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGAT2
Synonyms:	ARAT; GS1999FULL; HMFN1045
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203920 representing NM_032564 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACCCATAGCCGCTACTCCGGGTCTGCGCGGCGAGCGTCAGGCCGAGGCTGACCGGAGCC
AGCGCTCTCACGGAGGACCTGCGCTGTCGCGGAGGGGTCTGGGAGATGGGGCACTGGATCCAGCATCCT
CTCCGCCCTCCAGGACCTCTTCTGTACCTGGCTCAATAGGTCCAAGGTGAAAAGCAGCTACAGGTC
ATCTCAGTGCTCCAGTGGTCTGTCTCCTTGTACTGGAGTGGCCTGCAGTCCATCCTCATGTACA
TATTCTGCACTGATTGCTGGCTCATCGTGTGCTCTACTTCACTTGGCTGGTGTGACTGGAACACACC
CAAGAAAGGTGGCAGGAGGTCACAGTGGTCCGAACTGGGCTGTGTGGCGCTACTTTCGAGACTACTTT
CCCATCCAGCTGGTGAAGACACACAACCTGCTGACCACCAGGAATATATCTTTGGATACCAACCCCATG
GTATCATGGGCTGGGTGCCTTCTGCAACTTCAGCACAGAGGCCACAGAAGTGAAGCAAGAAGTCCAGG
CATACGGCCTTACCTGGCTACACTGGCAGGCAACTCCGAATGCCTGTGTTGAGGGAGTACCTGATGCT
GGAGGTATCTGCCTGTGAGCGGGACACCATAGACTATTTGCTTTCAAAGAATGGGAGTGGCAATGCTA
TCATCATCGTGGTGGGGTGGCGCTGAGTCTCTGAGCTCCATGCCTGGCAAGAATGCAGTACCCCTGCG
GAACCGCAAGGGCTTTGTGAACTGGCCCTGCGTCATGGAGCTGACCTGGTCCCATCTACTCCTTTGGA
GAGAATGAAGTGTACAAGCAGGTGATCTCGAGGAGGGCTCTGGGGCCGATGGGTCAGAAAGAATTC
AGAAATACATTGGTTTCGCCCATGCATCTCCATGGTCGAGGCCTCTTCTCCTCCGACACTGGGGGCT
GGTGCCTACTCCAAGCCATCACCACTGTTGTGGGAGAGCCATCACCATCCCCAAGCTGGAGCACCCA
ACCCAGCAAGACATCGACCTGTACCACACCATGTACATGGAGGCCTGGTGAAGCTCTTCGACAAGCACA
AGACCAAGTTCGGCTCCCGGAGACTGAGGTCCTGGAGGTGAAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203920 representing NM_032564
 Red=Cloning site Green=Tags(s)

MKTLIAA YSGVLRGERQAEADRSQRSHGGPALSREGSGRWGTGSSILSALQDLFSVTWLNRSKVEKQLQV
 ISVLQWVLSFLVLGVACSAILMYIFCTDCWLI AVL YFTWL VFDWNTPKKGGRRSQWVRN WAVWRYFRDYF
 PIQLVKTHNLLTTRNYIFGYHPHGIMGLGAF CNFSTEATEVSKKFPGIRPYLATLAGNFRMPV LREYLM S
 GGICPVSRDTIDYLLSKNGSGNAIIIVVGGAAESLSSMPGKNAVTLRNRKGFVKLALRHGADLVPIYSFG
 ENEVYKQVIFEEG SWGRWVQKFKQYIGFAPCIFHGRGLFSSDTWGLVPYSKPITTVVGEPIITIPKLEHP
 TQQDIDL YHTMYEALVKLFDKHKTKFGLPETEVLEV N

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032564

ORF Size: 1164 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_032564.5](#)

RefSeq Size: 2439 bp

RefSeq ORF: 1167 bp

Locus ID: 84649

UniProt ID: [Q96PD7](#)

Cytogenetics: 11q13.5

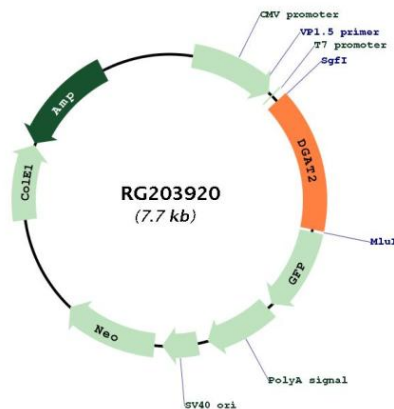
Domains: DAGAT

Protein Families: Transmembrane

Protein Pathways: Glycerolipid metabolism, Metabolic pathways, Retinol metabolism

Gene Summary: 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]

Product images:



Circular map for RG203920