

Product datasheet for SC118673

MGAT2 (NM_002408) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT2 (NM_002408) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGAT2
Synonyms:	CDG2A; CDGS2; GLCNACTII; GNT-II; GNT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118673 sequence for NM_002408 edited (data generated by NextGen Sequencing)

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ATGAGGTTCCGCATCTACAAACGGAAGGTGCTAATCCTGACGCTCGTGGTGGCCGCTGC
GGCTTCGTCTCTGGAGCAGCAATGGGCGACAAAGGAAGAACGAGGCCCTCGCCCCACCG
TTGCTGGACGCCGAACCCGCGGGGTGCCGGCGCCGGTGGGGACCCCTCTGTG
GCTGTGGGCATCCGCAGGGTCTCCAACGTGTCGGCGGCTTCCCTGGTCCC GGCGGTCCCC
CAGCCCGAGGCGGACAACCTGACGCTGCGGTACCGGTCCCTGGTGTACCAGCTGAACTTT
GATCAGACCTGAGGAATGTAGATAAGGCTGGCACCTGGGCCCCCGGGAGCTGGTGCTG
GTGGTCCAGGTGCATAACCGGCCGAATACCTCAGACTGCTGCTGGACTCACTTCGAAAA
GCCCAGGGAATTGACAACGTCCTCGTCATCTTTAGCCATGACTTCTGGTCGACCGAGATC
AATCAGCTGATCGCCGGGTGAATTTCTGTCCGGTTCGACGGTGTCTTTCCTTTCAGC
ATTCAGTTGTACCCTAACGAGTTTCCAGGTAGTAGCCCTAGAGATTGTCCAGAGACCTG
CCGAAGAATGCCGCTTTGAAATTGGGGTGCATCAATGCTGAGTATCCCGACTCCTTCGGC
CATTATAGAGAGGCCAAATTTCTCCAGACCAAACATCACTGGTGGTGGAAAGCTGCATTTT
GTGTGGGAAAGAGTGAAAATTTCTTCGAGATTATGCTGGCCTTATACTTTTCTAGAAGAG
GATCACTACTTAGCCCCAGACTTTTACCATGTCTTCAAAAAGATGTGGAAACTGAAGCAG
CAAGAGTGGCCTGAATGTGATGTTCTCTCCCTGGGGACCTATAGTGCCAGTCGCAGTTTC
TATGGCATGGCTGACAAGGTAGATGTGAAAATTTGGAAATCCACAGAGCACAAATATGGGT
CTAGCCTTGACCCGGAATGCCTATCAGAAGCTGATCGAGTGCACAGACACTTTTGTACT
TATGATGATTATAACTGGGACTGGACTCTTCAATACTTGACTGTATCTTGTCTTCCAAAA
TTCTGGAAAAGTGCTGGTTCCTCAAATTCCTAGGATCTTTCATGCTGGAGACTGTGGTATG
CATCACAAGAAAACCTGTAGACCATCCACTCAGAGTGCCCAAATTTGAGTCACTCTTAAAT
AATAACAAACAATACATGTTTCCAGAACTCTAACTATCAGTGAAAAGTTTACTGTGGTA
GCCATTTCCACCTAGAAAAAATGGAGGGTGGGGAGATATTAGGGACCATGAACTCTGT
AAAAGTTATAGAAGACTGCAGTGA

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Clone variation with respect to NM_002408.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002408 unedited CCCCCTCGGATTTGTATACGACTCATATAGGCGGCCTGCGAATCGGCACGAGGGTCCCCG CCGGAGTGAGGCGAGGCCGCGTCTCAGTTCTGGCCGTCTAGGGCCCCTGTAAGGATGA GAGCGCAGAGGACGCAGGGCCGCTGGAGGCGCAGGTAACGAAGCTAGGGTGCGGTTGGGA CCGCGGCTGAGCTTTTTCCGGGACCCGTGGTCTGAATGGAGAGGACGGAGACGAAGCCG AGCCGCGGCTCCTAGCGCGCGCCGATGCTCGAGCTGTAGCTGCCAGGCGAGGATGTGT GGGAGCGCANGCGCGCGGGTAATGAGAGGTCTCGGGCCCCAGGACCCCGGGGCCCG GGATGAGTTAGCGAGGGCAGCCGCGGGGCCAGTTCCGACCGTGACAGGCCAAGGCGACG GCCGCCGCCCGCCCTTCCGTGCAGAAGCAGCTGCTCCTTTCCGCGCCCGCCGCC TGCGCTCCCGCCCTGGAGACCATGAGGTTCCGCATCTACAAACGGAAGGTGCTAATCCT GACGCTCGTGGTGGCCGCTGCGCTTCTGCTCTGGAGCAGCAATGGGCGACAAAGGAA GAACGAGGCCCTCGCCACCGTTGCTGGACGCCGAACCCGCGCGGGGTGCCGCGGCCG CGGTGGGACCACCCCTCTGTGGCTGTGGGCATCCGCAGGGTCTCCTAACGTGTCGGCGG CTTCCCTGGTCCCGGGGGTCCCCAGCCTGAGGCGGACACCCTGACGCTGCGGTACCGG TCCCTGGTGTACCAGCTGAACCTTGTATCAGACCCTGAGGAAGTAATAAAGGCTGGCCCT GGGCCCCGGAAGTGGTGTGGTGGTCCAGTGCATAACCGGCCCGATACCTCAGATGGTG CTGCACTACTTCCAA
Restriction Sites:	NotI-NotI
ACCN:	NM_002408
Insert Size:	2200 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_002408.3 , NP_002399.1
RefSeq Size:	2728 bp
RefSeq ORF:	1344 bp
Locus ID:	4247
UniProt ID:	Q10469
Cytogenetics:	14q21.3
Domains:	MGAT2
Protein Families:	Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: The product of this gene is a Golgi enzyme catalyzing an essential step in the conversion of oligomannose to complex N-glycans. The enzyme has the typical glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain, and a C-terminal catalytic domain. Mutations in this gene may lead to carbohydrate-deficient glycoprotein syndrome, type II. The coding region of this gene is intronless. Transcript variants with a spliced 5' UTR may exist, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.