

Product datasheet for **SC110259**

MGAT4B (NM_054013) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT4B (NM_054013) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGAT4B
Synonyms:	GNT-IV; GNT-IVB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110259 sequence for NM_054013 edited (data generated by NextGen Sequencing)

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ATGTCACGTGTGGCAGGCACAAGAACAGATGTCAATGAGCTATTGCAGAGGTGGACACCC
AGATGTGTGCGCTGGCACACTGGAGGGGCCCGTAGGGTGGCTCTAGACCGCCCCCTCGTG
ACGGCTTGCCCTACCACCTGCAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCCCTGGCG
CTGCCGATCGGTTGCACGCAGCTGAGCAGGAGAGCCTCAAGCGCTCCAAGGAGCTCAAC
CTGGTGTGACGAGATCAAGAGGGCCGTGTGAGAAAGGCAGGCGCTGCGAGACGGAGAC
GGCAATCGCACCTGGGGCCGCTAACAGAGGACCCCGATTGAAGCCGTGGAACGGCTCA
CACCGGCACGTGCTGCACCTGCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAG
GAGAGCAGTCTGCAGCCCGCGTGCAGTGGGCCAGGGCCGACCGGAGTGTGCGTGGTG
ATGGGCATCCCGAGCGTGCAGCGCAGGTGCACTCGTACCTGACTGACTCTGCACTCG
CTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTCATCGTGGTGTGATCGCC
GAGACTGACTCACAGTACACTTCGGCAGTACAGAGAATCAAGGCCTTGTCCCCACG
GAGATCCATTCTGGGCTCCTGGAGGTCATCTCACCTCCCCCACTTCTACCCTGACTTC
TCCCGCTCCGAGAGTCTTTGGGGACCCCAAGGAGAGAGTCAGGTGGAGGACCAACAG
AACCTCGATTACTGCTTCTCATGATGTACGCGAGTCCAAAGGCATCTACTACGTGCAG
CTGGAGGATGACATCGTGGCCAAGCCAACTACCTGAGCACCATGAAGAACTTTGCACTG
CAGCAGCCTTCAGAGGACTGGATGATCCTGGAGTCTCCAGCTGGGCTTCATTGGTAAG
ATGTTCAAGTCGCTGGACCTGAGCCTGATTGTAGAGTTTATTCTCATGTTCTACCGGGAC
AAGCCCATCGACTGGCTCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCCGAGAAG
GATGCGAAGCACTGTGACCGGCAGAAAGCCAACCTGCGGATCCGTTCAAACCGTCCCTC
TTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGAACTGAAGGACAAA
GACTTTGAAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCAG
AGCCTGAAGACATACCAGCACTTACCCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTC
TGGGCCTTACCCTGCCGCGGGGACTTCATCCGCTTCCGCTTCTTCAAACCTTAAGA
CTGGAGCGTTTCTTCCGAGTGGGAACATCGAGCACCCGGAGGACAAGCTTCTCAAC
ACGTCTGTGGAGGTGCTGCCCTTCGACAACCTCAGTCAGACAAGGAGGCCCTGCAGGAG
GGCCGCACCGCCACCCTCCGGTACCCTCGGAGCCCGACGGCTACCTCCAGATCGGCTCC
TTCTACAAGGGAGTGGCAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTG
CGCCTCTCGATCCAGACGGACTCCCTGTGTGGGTGATTCTGAGCGAGATCTTCTGAAA
AAGGCCGACTAA
    
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Clone variation with respect to NM_054013.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_054013 unedited

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TTGTAATACGACTTACTATAGGGCCGCGCAATTCGCACGAGGGCTAATTCCTCGT
TTTCTCCCATGAGCATTAGTGTGAGTGAATTTAGAGTGACCCAGCTATGTCACGTG
TGGCAGGCACAAGAACAGATGTCAATGAGCTATTGCAGAGGTGGACACCCAGATGTGTG
GCTGGCACACTGGAGGGGCCCGTAGGGTGGCTCTAGACCGCCCCCTCGTACGGCTTGCC
TACCACCTGCAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCTGGCGCTGCGCGATC
GGTTGCACGCAGCTGAGCAGGAGAGCCTCAAGCGCTCCAAGGAGCTCAACCTGGTGTGG
ACGAGATCAAGAGGGCCGTGTGAGAAAGGCAGGCGCTGCGAGACGGAGACGGCAATCGCA
CCTGGGGCCGCTAACAGAGGACCCCGATTGAAGCCGTGGAACGGCTCACACCGGCACG
TGCTGCACCTGCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTC
TGCAGCCCGGCTGCGCGTGGGCCAGGGCCGACCGGAGTGTGCGTGGTGTGATGGGCATCC
CGAGCGTGCAGGCGGAGGTGCACTCGTACCTGACTGACTCTGCACTCGCTCATCTCCG
AGCTGAGCCCGCAGGAGAAGGAGGGACTCGTCATCGTGGTGTGATCGCCGAGACTGACT
CACAGTACACTTCGGCAGTACAGAAAGACATCAAGGCCTTGNCCCCACGGAGATCCATT
CTGGGCTCCTGGNAGTCACTCACCTTCCCCCACTTCTACCCTGACTTCTCCCGNCTNC
GAAAGTCTTTGGGGACCCCAAGAGAGAGTCAGGTGGAGGACCAACAGACCTCGATACTG
CTCCTCAGAGTCGCGCATCCAAAGCTCTACTC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_054013 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTCTTCATTAACCCTTTATTAC AAGTCACGCTCTTATAGAAGTATATGTGGACTTACGTGAAAAATCAAATGTATCCAAGA ATAAAAAACACAGCACATAAAGTAGTATATGCATTCCAGTGTTCGCGCCAGAGACGGCGG GCGCCCAAGTAAAAGCTCTTCTAAAACGGCCTGACTGGGGCAGGCCGGGTGCGAACGGTT CCGGGCCCTCAGGCACAGTGTGGGGGCCGCTGCCTCCTCCGCGGCCCGGGGGCGGGGGC AGCACAGCTCCTAGGGCCTCCGGGCCAGCGGGCAGCCAGCCAGCCGCGCCAAAGCCGACG CCAGGCAGAACCCTTTGGGCGGGGCCGTATCTGGCCCTCCGGGGACGGCAGTGACGACAC CCCCAGAATGTGGGCTTCAGGGCTGGCCACAGGGTACCCTCAGAAGCCCGCAGCTTAGT CGGCCTTTTTTCAGGAAGATCTCGCTCAGAATCACCCACACAGGGGAGTCCGTCTGGATCG AGAGGGCAGTGCTTCCAGAGGGCCGAAGGCTGGGTCCACCTCTCCCTCTCCACTCCCTT GTAGAAGGAGCCGATCTGGAGGTAGCCGTCGGGGCTCCGAGGGTCCCGGAGGTTGGGGGT GCGGCCCTCTGCAGGGCCTCCTGTCTGACTGAGGGTTTTTCAAAGGCAGCACCTCC ACAGACGTGTTGAAAGAGCTTGCCCTTCCGGGTGCTCGATGGTCCCACTGCGAAAAAG AAACCGTTCACCTTTTAAAGGTCTGACAGTACCCGAAACCGGCTGAATTCCTCCGCGT AGAGGGTGACGGCCCCAAAAATCTTTTCCGCCTGAAGGTCTTCTTTCAGGCGGACACGC CGGTCTGTCTAATAGCCTTTCGTACCTTGTGGCGGCCAAATCGTTCTCGCTAGGACT GTTTCAAATTTATGACTTAACCCGCGCCCTCCGCCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_054013
Insert Size:	2620 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>NM_054013.1</u> , <u>NP_463459.1</u>
RefSeq Size:	2891 bp
RefSeq ORF:	1692 bp
Locus ID:	11282
UniProt ID:	<u>Q9UQ53</u>
Cytogenetics:	5q35.3
Domains:	Glyco_transf_55

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: This gene encodes a key glycosyltransferase that regulates the formation of tri- and multiantennary branching structures in the Golgi apparatus. The encoded protein, in addition to the related isoenzyme A, catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc in a beta-1,4 linkage to the Man-alpha-1,3-Man-beta-1,4-GlcNAc arm of R-Man-alpha-1,6(GlcNAc-beta-1,2-Man-alpha-1,3)Man-beta-1,4-GlcNAc-beta-1,4-GlcNAc-beta-1-Asn. The encoded protein may play a role in regulating the availability of serum glycoproteins, oncogenesis, and differentiation. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) contains a distinct 5' UTR and includes an additional in-frame portion of the 5' coding region, compared to variant 1. The encoded isoform (2) has a longer, distinct N-terminus compared to isoform 1.