

Product datasheet for **SC110257**

MGAT4B (NM_014275) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT4B (NM_014275) 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: >NCBI ORF sequence for NM_014275, the custom clone sequence may differ by one or more nucleotides

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ATGAGGCTCCGCAATGGCACCTTCTGACGCTGCTGCTTCTGCCTGTGCGCCTTCTCTCGTGTCT
GGTACCGGGCACTCAGCGGCCAGAAAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCTGGCGCTGCG
CGATCGGTTGCACGCAGCTGAGCAGGAGAGCCTCAAGCGCTCCAAGGAGCTCAACCTGGTGTGGACGAG
ATCAAGAGGGCCGTGTCAGAAAGGCAGGCGCTGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCTAA
CAGAGGACCCCGATTGAAGCCGTGGAACGGCTCACACCGGCACGTGCTGCACCTGCCACCGTCTTCCA
TCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGCCCGCGGTGCGCGTGGGCCAGGGCCGACC
GGAGTGTGCGTGGTGTGGGCATCCCGAGCGTGCGGCGGAGGTGCACTCGTACCTGACTGACACTCTGC
ACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTATCGTGGTGTGATCGCCGAGAC
TGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCACCGAGATCCATTCTGGG
CTCCTGGAGGTATCTCACCTCCCCCACTTCTACCCTGACTTCTCCCGCTCCGAGAGTCTTTGGGG
ACCCCAAGGAGAGAGTCAGGTGGAGGACAAACAGAACCTCGATTACTGTTCTCATGATGACGCGCA
GTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCACTACCTGAGCACCATG
AAGAACTTTGCACTGCAGCAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTATTG
GTAAGATGTTCAAGTCGCTGGACCTGAGCCTGATTGTAGAGTTTATTCTCATGTTCTACCGGGACAAGCC
CATCGACTGGCTCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGT
GACCGGCAGAAAGCAACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCACTACTCCT
CGCTGGCTGGCAAGATCCAGAACTGAAGGACAAAGACTTTGAAAGCAGGCGCTGCGGAAGGAGCATGT
GAACCCGCCAGCAGAGGTGAGCACGAGCCTGAAGACATACCAGCACTTCAACCTGGAGAAAGCCTACCTG
CGCGAGGACTTCTTCTGGGCTTCAACCTGCCCGGGGACTTATCCGCTTCCGCTTCTTCAACCTC
TAAGACTGGAGCGGTTCTTCTTCCGACGTGGAAACATCGAGCACCCGGAGGACAAGCTTCTCAACACGTC
TGTGGAGGTGCTGCCCTTCGACAACCTCAGTCAGACAAGGAGGCCCTGCAGGAGGGCCGACCCGCCACC
CTCCGGTACCCTCGAGCCCCGACGGCTACCTCCAGATCGGCTCCTTCTACAAGGAGTGGCAGAGGGAG
AGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGACGGACTCCCCTGTGTGGT
GATTCTGAGCGAGATCTTCTGAAAAGGCCGACTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014275 unedited

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TAATACGACTTCACTATAGGGCGGCCGGAATCGGCACGAGGGATATCTGCAGTGAAGCCT
GATACCTGCCTCTGCCCTTCTGAGCCTGTTCTCTTCCCTGAGTACAGGGCACAAAGCTT
GCGCCCTGAGGGGCGGCCGGCGCTCCCTGGCCCGGTCCCCGCCGGCCCCGGGCCCC
CGCCCCCCCCGACCCGGGGCGGGGCCCTGCCGCCGCCGCCGCCCTTCCGACCCCT
GCGCCCCGGCCCCGTCCCCGGGCCATGCAGCCTCGGCCCGCGGGCGCCCGCCGCA
CCCGAGGAGATGAGGCTCCGCAATGGCACCTTCTGACGCTGCTGCTTCTGCCTGTGC
GCCTTCTCTCGCTGTCTTGGTACGCGGCACTCAGCGGCCAGAAAGGCGACGTTGTGGAC
GTTTACCAGCGGGAGTTCTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGGAGAGC
CTCAAGCGCTCCAAGGAGCTCAACCTGGTGTGGACGAGATCAAGAGGGCCGTGTAGAA
AGGCAGGCGCTGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCTAACAGAGGACCC
CGATTGAAGCCGTGGAACGGCTCACACCGGCACGTGCTGCACCTGCCACCGTCTCCAT
CACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGCCCGGTTGCGCGTGGGCCAG
GGCCGACCGGAGTGTGCGTGGTGTGGGCATCCCGAGCGTGGCGCGGAGGTGCACTCG
TACCTGACTGACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGGAGAC
TCGNCCATCGTGGTGTGATCGCCGAGACTGACTACAGTACACTTCGGCAGTGACAGAGA
CATCAAGGCCCTGTTCCCCACGAGATCCATNCT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014275 unedited ATGGACCGCGNGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGGCACACACT TCATTAACCCTTTATTACAAGTCACGCTTTATAGAAGTATATGTGGACTTACGTGAAAA AATCAAATGTATCCAAGAATAAAAAACACAGCACATAAAGTAGTATATGCATTCCAGTGT TCGCGCCAGAGACGGCGGGCCCAAGTAAAAGCTTTCTAAAACGGCCTGACTGGGGCA GGCCGGGTGCGAACGGTTCGGGGCTCAGGCACAGTGTGGGGCCGCCTGCCTCCTCCG GGCCCGGGCGGGGGGGCAGCACCAGCTCCTAGGGCCTCCGGGCCAGCGGGACCCAG GCCGGCCCAAGCCGACGCCAGGCAGAACCCCTTTGGGCGGGCCGTATCTGGCCCTCCG GGACGGCAGTGACGACACCCCAAGAAATGTGGGCTTCAGGGCTGGCCACAGGGTACCCTC AGAAGCCCGCAGCTTAGTCGGCCTTTTTAGGAAGATCTCGCTCAGAATCACCCNACACA GGGGAGTCCGTCTGGATCGAGAGGCGCAGTGCTTCCAGAGGGCCGAAGGCTGGGTCCACC TCTCCCTCTGCCACTCCCTTGTAGAAGGAGCCGATCTGGAGGTAGCCGTCGGGGCTCCAA GGGTACCGGAGNGGGCGGTTGCGGGCCCTTCTGCANGGCCTCCTGTCTGACTGAAGGG TTGNCAAAGGCCANCACCTCCACAGACGTGNTTGAAGAGCTTGCCTCNCGGTGCCTCGA TGTTCCCACTGCGGGAAGAAGAAACGCTCCAGTCTTAAAAGGTTGGGAAAAGNCGGAAC GGGATGAAGTCCCCCGCCGAGGGTGAAGGCCANAAGAAAGTCTCGCGCAGGTAGGG CTCTCCAAGGGGAAGTGGCTGGTTAGTCTTCAAGGCTCGGGCTAACCTTA
Restriction Sites:	ECoRI-NOT
ACCN:	NM_014275
Insert Size:	2800 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_014275.2</u> , <u>NP_055090.1</u>
RefSeq Size:	2482 bp
RefSeq ORF:	1647 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 (1) represents the shorter transcript and encodes the shorter isoform (1).