

Product datasheet for **SC307830**

MGAT5B (NM_198955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT5B (NM_198955) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGAT5B
Synonyms:	GnT-IX; GnT-VB
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_198955, the custom clone sequence may differ by one or more nucleotides

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ATGCACTCATTTCGTA AAAACATTTGTGCAGCCGGTACGTGGTGGAGCGTCAGGGCACGATG
GCCCTTCTGCCTCCTGACCCGCTCCTTCTCTCCGCAAGGCTTTTTGTCTGGGCATC
GGCTTCTTCACTCTCTGCTTCTGATGACGTCTCTGGGAGGCCAGTTCTCGGCCCGGCGC
CTGGGGGACTCGCCATTCACCATCCGCACAGAAGTGATGGGGGGCCCCGAGTCCCAGGCGC
GTCCCTGCGCAAGATGAGCGACCTGCTGGAGCTGATGGTGAAGCGCATGGACGCACTGGCC
AGGCTGGAGAACAGCAGTGAGCTGCACCGGGCCGGCGGCACCTGCACTTTCCCGCAGAC
AGGATGCCCCCTGGGGCCGGCCTCATGGAGCGGATCCAGGCTATTGCCCAAGACGCTCC
GACATCGCTGTGAAGGTGGACCAGATCCTGCGCCACAGTCTGCTCCTGCACAGCAAGGTG
TCAGAAGGCCGGCGGGACCAGTGTGAGGCACCCAGTGACCCCAAGTTCCCTGACTGCTCA
GGGAAGGTGGAGTGGATGCGTGCCCGCTGGACCTTGACCCCTGTACGCCTTCTTTGGG
GTGGACGGCACCGAGTGTCTTCTCATCTACCTCAGTGAGGTCGAGTGGTTCTGCCCC
CCGCTGCCCTGGAGGAACAGACGGCTGCCAGAGGGCACCAAGCCCTCCCCAAAGTC
CAGGCAGTTTTCCGAAGCAACCTGTCCACCTTCTGGACCTGATGGGCAGCGGGAAGGAG
TCCTGATCTTATGAAGAAGCGGACCAAGAGGCTCACAGCCAGTGGGGCTGGCTGCC
CAGCGCTGGCACAGAAGCTGGGGGCCACCCAGAGGGACCAAGAAGCAGATCCTGGTCCAC
ATCGGCTTCTGACGGAGGAGTCCGGGGACGTGTTAGCCCTCGGGTCTGAAGGGCGGG
CCCCTAGGGGAGATGGTGCAGTGGGCGGACATTCTGACTGCACTATATGCTGGGCCAT
GGCCTGCGGGTCAAGTCTCCCTGAAGGAGCTGCAGAGTAACTTAGGGGTACCGCCAGGC
CGGGGAAGCTGCCCGTCAACATGCCCTGCCCTTCGACCTCATCTACACCGACTACCAC
GGCCTGCAGCAGATGAAGCGGCACATGGGACTCTCCTTCAAGAAGTACCGGTGCCGAATC
AGGGTCATCGACACCTTCGGGACGGAACCTGCGTACAACCACGAGGAGTACGCCACGCTG
CACGGCTACCGGACCAACTGGGGCTACTGGAACCTCAACCCCAAGCAGTTCATGACCATG
TTTCTCATACCCCGACAACCTCCTTTCATGGGCTTCGTGTCCGAGGAGCTCAACGAGACG
GAGAAGCGGCTCATCAAAGCGGCAAGGCCAGCAACATGGCCGTGGTGTACGGCAAGGAG
GCGAGCATCTGGAAGGGGAAGGAGAAGTTCTGGGCATCCTGAACAAATACATGGAGATC
CATGGCACCGTACTACGAGAGCCAGCGGCCCCCGAGGTGCCAGCCTTTGTGAAGAAC
CACGGCCTCTTACCGCAGCTGAGTTTCAGCAGCTGCTGCGCAAGGCCAAACTCTTCATC
GGGTTTGGCTTCCCTACGAGGGCCCCGCCCTGGAGGCCATCGCCAATGGTTGCATC
TTCTGCACTCCGCTTACGCCCCCCCCACAGCTCCCTCAACCACGAGTCTTCCGAGGC
AAGCCACCTCCAGAGAGGTGTTCTCCAGCATCCCTACGCGGAGAACTTCATCGGCAAG
CCCCACGTGTGGACAGTGCAGTACAACAACCTCAGAGGAGTTTGAAGCAGCCATCAAGGCC
ATTATGAGAACTCAGGTAGACCCCTACCTACCCTACGAGTACACCTGCGAGGGGATGCTG
GAGCGGATCCACGCCTACATCCAGCACCAGGACTTCTGCAGAGCTCCAGACCCCTGCCCTA
CCAGAGGGCCACGCCCGCAGAGCCCCTTTGTCTGGCCCCCAATGCCACCCACCTCGAG
TGGGCTCGGAACACCAGCTTGGCTCCTGGGGCCTGGCCCCCGCGCACGCCCTGCGGGCC
TGGCTGGCCGTGCTGGGAGGGCCTGCACCGACACCTGCCTGGACCACGGGCTAATCTGT
GAGCCCTCCTTCTCCCTTCTGAACAGCCAGGACGCCTTCTCAAGCTGCAGGTGCC
TGTGACAGCACCGAGTCGGAGATGAACCACCTGTACCCGGCGTTCCGCCAGCCTGGCCAG
GAGTGCTACCTGCAGAAGGAGCCTCTGCTCTTACGCTGCGCCGGCTCCAACACCAAGTAC
CGCCGGCTCTGCCCTGCCGCGACTTCCGCAAGGGCCAGGTGGCCTTGTGCCAGGCTGT
CTGTGA

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Restriction Sites: Please inquire

ACCN: NM_198955

OTI Disclaimer: 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.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_198955.1](#), [NP_945193.1](#)

RefSeq Size: 4068 bp

RefSeq ORF: 2406 bp

Locus ID: 146664

UniProt ID: [Q3V5L5](#)

Cytogenetics: 17q25.2

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: The MGAT5B gene encodes a beta-1,6-N-acetylglucosaminyltransferase (EC 2.4.1.155) that functions in the synthesis of complex cell surface N-glycans (Kaneko et al., 2003 [PubMed 14623122]).[supplied by OMIM, Nov 2008]

Transcript Variant: This variant (2) encodes the longest isoform (2).