

## Product datasheet for **SC317905**

### **MGAT3 (NM\_002409) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MGAT3 (NM_002409) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGAT3
Synonyms:	GNT-III; GNT3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002409 edited  
 GTTGCTGAGACCCAGCGGGCGATGGGATGAAGATGAGACGCTACAAGCTCTTTCTCATGT  
 TCTGTATGGCCGGCCTGTGCCTCATCTCCTTCCTGCACTTCTTCAAGACCCTGTCCTATG  
 TCACCTTCCCCGAGAAGTGGCTCCCTCAGCCCTAACCTGGTGTCCAGCTTTTTCTGGA  
 ACAATGCCCGGTACGCCCCAGCCAGCCCGAGCCAGGAGGCCCTGACCTGCTGCGTA  
 CCCCCTCTACTCCACTCGCCCTGCTGCAGCCGCTGCCGCCAGCAAGGCGGCGGAGG  
 AGCTCCACCGGGTGGACTTGGTGTGCCGAGGACACCACCGAGTATTTGCTGCGCACCA  
 AGGCCGCGGCGTCTGTTCAAACCCGGCACCAAGATGCTGGAGAGGCCGCCCGGGAC  
 GGCCGGAGGAGAAGCCTGAGGGGCCAACGGCTCTCGGCCCGGCGGCCACCCCGGTACC  
 TCCTGAGCGCCCGGAGCGCACGGGGGCCGAGGCGCCGGCGCAAGTGGGTGGAGTGG  
 TGTGCCTGCCCGCTGGCACGGACCCAGCTGCGGCGTGCCACTGTGGTGCAGTACTCCA  
 ACCTGCCACCAAGGAGCGGCTGGTGCCAGGGAGGTGCCGCGCCGCTCATCAACGCCA  
 TCAACGTC AACACGAGTTCGACTGCTGGACGTGCGCTTCCACGAGCTGGGCGACGTGG  
 TGGACGCTTTGGTGTGCGAGTCCAACCTCACGGCTTATGGGAGCCGCGGCCGCTCA  
 AGTTCCGGGAGATGCTGACCAATGGCACCTTCGAGTACATCCGCCACAAGGTGCTCTATG  
 TCTTCTGGACCACTTCCGCCCCGGCGGCGGAGGACGCTGGATCGCCGACGACTACC  
 TGCACACCTTCTCACCCAGGACGGCTCTCGCGCTGCGCAACCTGCGGCCGACGACG  
 TCTTATCATTGACGATGCGGACGAGATCCCGCCCGTGACGGCGTCTTTTCTCAAGC  
 TCTACGATGGCTGGACCGAGCCCTTCGCTTCCACATGCGCAAGTCGCTCTACGGTCTT  
 TCTGGAAGCAGCCGGGCACCCCTGGAGGTGGTGTGACGGTGCACGGTGGACATGCTGCAGG  
 CAGTGTATGGGCTGGACGGCATCCGCTGCGCCGCCAGTACTACCCATGCCAACT  
 TCAGACAGTATGAGAACCACCGGCCACATCTGGTGCAGTGGTTCGCTGGGAGCCGCC  
 TGCACTTCGCGGCTGGCACTGCTCTGTTGCTTACGCCCCGAGGGCATCTACTTCAAGC  
 TCGTGTCCGCCAGAATGGCGACTTCCACGCTGGGGTACTACGAGGACAAGCGGGACC  
 TGAACATACATCCGCGCCTGATCCGACCGGGGCTGGTTCGACGGCACGACGAGGAGT  
 ACCCGCTGCAGACCCAGCGAGCACATGTATGCGCCAAAGTACCTGCTGAAGAATACG  
 ACCGGTCCACTACCTGCTGGACAACCCCTACCAGGAGCCAGGAGCACGGCGCGGGCG  
 GGTGGCGCACAGGGTCCCGAGGGAAGGCCGCCCGCCGGGGCAAACCTGGACGAGGCGG  
 AAGTCTAGAGCTGCATGATCTGATAGGGTTTGTGACAGGGCGGGGTGGCGGCGGCCCT  
 AGCGCTATCTCCCTGCCTCCTGCCGCTCCTTGGTTCTTGAGGGGACCAGGAGTGGTGG  
 GGAGTGGGGTGGGGTAGGGTTTCCCTACTGAAGCCCTTGTGAATCAAGGGTCAGGCT  
 TTGAGCTCAGAAAATATCCCTCCTGTTGGGAGAGGGCGCAGGCCGTGACGTCTGGGTGGC  
 CCTATGACTGCCAAGACTGCTGTGGC

- Restriction Sites:** Please inquire
- ACCN:** NM\_002409
- Insert Size:** 1900 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_002409.4.
- 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\\_002409.4](#), [NP\\_002400.3](#)

**RefSeq Size:** 5102 bp

**RefSeq ORF:** 1602 bp

**Locus ID:** 4248

**UniProt ID:** [Q09327](#)

**Cytogenetics:** 22q13.1

**Protein Families:** Transmembrane

**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis

**Gene Summary:** There are believed to be over 100 different glycosyltransferases involved in the synthesis of protein-bound and lipid-bound oligosaccharides. The enzyme encoded by this gene transfers a GlcNAc residue to the beta-linked mannose of the trimannosyl core of N-linked oligosaccharides and produces a bisecting GlcNAc. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longer transcript, and is transcribed from the H2O promoter. Both variants 1 and 2 encode the same protein.