

Product datasheet for **SC320161**

MGAT2 (NM_001015883) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT2 (NM_001015883) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGAT2
Synonyms:	GNT2, CDGS2, GNT-II, GLCNACTII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001015883.1
 CCGGGCAGTTGCGGGTGTCTATAACGGTCCCGCCGGAGTGAGGCGAGGCCGCGTCGCTC
 AGTTCTGGCCGTCTAGGGCCCCTGTAAGGATGAGAGCGCAGAGGACGCAGGGCCGCTGGA
 GGCGCAGGTAACGAAGCTAGGGTTCGGTTGGGACCGCGGCTGAGCTTTTTCCGGGACCCG
 TGGTGTGAATGGAGAGGACGGAGACGAAGCCGAGCCGCGGCTCCTAGCGGCGGCCGA
 CGCTCGAGCTGTAGTCCAGGCGAGGATGTGTGGAGCGCAGGCGGCGGGGTAATGA
 GAGGCTCGGGCCCAGGACCCCGGGGCGGGATGAGTTAGCGAGGGCAGCCGCGGGG
 GCCAGTTCGACCGTGACAGGCCAAGGCGACGGCCGCGCCCGCCCGCCCTTCCGTGCA
 GAAGCAGCTGCTCTTTCCGCGCCCGCCGCTGCGCTCCCGGCCCTGGAGACCATGAGG
 TTCCGCATCTACAAACGGAAGGTGCTAATCCTGACGCTCGTGGTGGCCGCTGCGGCTTC
 GTCCTCTGGAGCAGCAATGGGCGACAAAGGAAGAACGAGGCCCTCGCCCCACCGTTGCTG
 GACGCCGAACCCGCGGGGTGCCGGCGCCGCGGTGGGACCACCCCTCTGTGGCTGTG
 GGCATCCGAGGGTCTCCAACGTGTGCGCGGCTCCCTGGTCCCGCGGTCGCCAGCCC
 GAGGCGGACAACCTGACGCTGCGGTACCGTCCCTGGTGTACCAGCTGAACCTTGATCAG
 ACCCTGAGGAATGTAGATAAGGCTGGCACCTGGGCCCCCGGGAGCTGGTGTGGTGGTC
 CAGGTGCATAACCGGCCGAATACCTCAGACTGCTGCTGGACTCACTTCGAAAAGCCAG
 GGAATTGACAACGTCCTCGTCATCTTTAGCCATGACTTCTGGTCGACCGAGATCAATCAG
 CTGATCGCCGGGGTGAATTTCTGTCGGTCTGTCAGGTGTTCTTTCTTTCCAGCATTGAG
 TTGTACCTAACGAGTTTCCAGGTAGTGACCCTAGAGATTGTCCAGAGACCTGCCGAAG
 AATGCCGCTTTGAAATGGGGTGCATCAATGCTGAGTATCCCGACTCCTTCGGCCATTAT
 AGAGAGGCCAAATTTCCAGACCAAACATCACTGGTGGTGAAGCTGCATTTTGTGTGG
 GAAAGAGTGAAAATTTCTCGAGATTATGCTGGCCTTATACTTTTCTAGAAGAGGATCAC
 TACTTAGCCCCAGACTTTTACCATGCTTCAAAAAGATGTGAAACTGAAGCAGCAAGAG
 TGCCCTGAATGTGATGTTCTCCTCGGGACCTATAGTGCCAGTCGCAGTTTCTATGGC
 ATGGCTGACAAGGTAGATGTGAAAACCTTGAAATCCACAGAGCACAATATGGGTCTAGCC
 TTGACCCGGAATGCCTATCAGAAGCTGATCGAGTGACAGACTTTCTGTACTTATGAT
 GATTATAACTGGGACTGGACTCTCAATACTTGACTGTATCTTGTCTTCCAAAATTTCTGG
 AAAGTGTGGTTCCTCAAATTCCTAGGATCTTTCATGCTGGAGACTGTGGTATGCATCAC
 AAGAAAACCTGTAGACCATCCACTCAGAGTGCCCAAATGAGTCACTCTTAATAATAAC
 AAACAATACATGTTTCCAGAACTCTAACTATCAGTGAAGTTTACTGTGGTAGCCATT
 TCCCCACCTAGAAAAATGGAGGTGGGGAGATATTAGGGACCATGAACTCTGAAAAGT
 TATAGAAGACTGCAGTGAATACAGTTACAAAAGCGACAGTCTTATTTTTGATATT
 TGTCCAAACAGGACATACAATTGAATAAAGAGTTTAGGAACTGGAAAAAAAAAAAAA
 AAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001015883

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: 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:	<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_001015883.1</u> , <u>NP_001015883.1</u>
RefSeq Size:	2531 bp
RefSeq ORF:	1344 bp
Locus ID:	4247
Cytogenetics:	14q21.3
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.</p>