

## Product datasheet for **SC303195**

### **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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >SC303195 representing NM\_002409.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

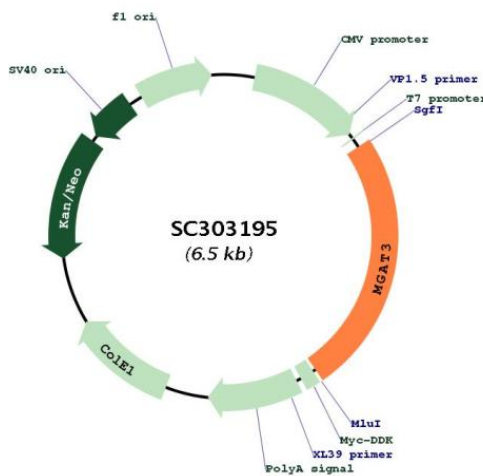
```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGATGAGACGCTACAAGCTCTTTCTCATGTTCTGTATGGCCGGCCTGTGCCTCATCTCCTTCCTG
CACTTCTCAAGACCCTGTCTATGTACCTTCCCCGAGAAGTGGCCTCCCTCAGCCCTAACCTGGTG
TCCAGCTTTTTCTGGAACAATGCCCGGTACGCCCCAGGCCAGCCCCGAGCCAGGAGGCCCTGACCTG
CTGCGTACCCCACTCTACTCCCACTCGCCCTGCTGCAGCCGCTGCCGCCAGCAAGCGGCCGAGGAG
CTCCACCGGGTGGACTTGGTGTGCCCGAGGACACCACCGAGTATTTCTGTGCGCACCAAGGCCGGCGGC
GTCTGTTCAAACCCGGCACCAAGATGCTGGAGAGGCCGCCCGGGACGGCCGGAGGAGAAGCCTGAG
GGGGCCAAACGGCTCCTCGGCCGGCGGCCACCCCGGTACCTCTGAGCGCCCGGGAGCGCACGGGGGGC
CGAGGCGCCCGGCGCAAGTGGGTGGAGTGGTGTGCTGCCCGGTGGCACGGACCCAGCTGCGGCGTG
CCCCTGTGGTGCAGTACTCAACCTGCCACCAAGGAGCGGCTGGTCCCAGGGAGGTGCCGCGCCG
GTCATCAACGCCATCAACGTCAACCACGAGTTCGACCTGTGGAGTGGCTTCCACGAGCTGGGGCAG
GTGGTGGACGCCTTTGTGGTGTGCGAGTCCAACCTCACGGCTTATGGGGAGCCGGCGCCGCTCAAGTTC
CGGGAGATGCTGACCAATGGCACCTTCGAGTACATCCGCCACAAGGTGCTCTATGTCTTCTTGACCAC
TCCCCGCCGGCGGCCGGCAGGACGGCTGGATCGCCGACGACTACCTGCGCACCTTCTCACCCAGGAC
GGCGTCTCGCGGCTGCGCAACCTGCGGCCGACGACGTCTTATCATTGACGATGCGGACGAGATCCCG
GCCCGTACGGGCTCCTTTTCTCAAGCTCTACGATGGCTGGACCGAGCCCTTCGCTTCCACATGCGC
AAGTGCCTCTACGGCTTCTTCTGGAAGCAGCCGGCACCTGGAGGTGGTGTGAGGCTGCACGGTGGAC
ATGCTGCAGGCAGTGTATGGGCTGGACGGCATCCGCTGCGCCGCCAGTACTACACCATGCCAAC
TTCAGACAGTATGAGAACCACCGGCCACATCCTGGTGCAGTGGTGCCTGGGCAGCCCCCTGCACTTC
GCCGGCTGGCACTGCTCCTGGTGTTCACGCCGAGGGCATCTACTTCAAGCTCGTGTCCGCCCAGAA
GGCGACTTCCACGCTGGGGTACTACGAGGACAAGCGGGACCTGAACTACATCCGCGCCGCTGATCCGC
ACCGGGGGCTGGTTCGACGGCACGCAGCAGGAGTACCCGCTGCAGACCCAGCGAGCACATGTATGCG
CCCAAGTACCTGCTGAAGAACTACGACCGGTTCCACTACCTGCTGGACAACCCTACCAGGAGCCAGG
AGCACGGCGGGGGCGGGTGGCGCCACAGGGTCCCGAGGGAAGGCCGCCCGCCGGGGCAAACCTGGAC
GAGGCGGAAGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
```

**Restriction Sites:**

Sgfl-MluI

**Plasmid Map:**



<b>ACCN:</b>	NM_002409
<b>Insert Size:</b>	1602 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_002409.4</a></u>
<b>RefSeq Size:</b>	5102 bp
<b>RefSeq ORF:</b>	1602 bp
<b>Locus ID:</b>	4248
<b>UniProt ID:</b>	<u><a href="#">Q09327</a></u>
<b>Cytogenetics:</b>	22q13.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>MW:</b>	61.3 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>