

## Product datasheet for **SC318884**

### MGAT1 (NM\_001114619) Human Untagged Clone

#### Product data:

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| Product Type:        | Expression Plasmids  |
| Product Name:        | MGAT1 (NM_001114619) Human Untagged Clone  |
| Tag:                 | Tag Free   |
| Symbol:              | MGAT1  |
| Synonyms:            | GLCNAC-TI; GLCT1; GLYT1; GNT-1; GNT-I; GnTI; MGAT  |
| Vector:              | <u>pCMV6 series</u>  |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001114619, the custom clone sequence may differ by one or more nucleotides<br>ATGCTGAAGAAGCAGTCTGCAGGGCTTGTGCTGTGGGGCCTATCCTCTTTGTGGCCTGG<br>AATGCCCTGCTGCTCCTCTTCTTCTGGACGCGCCAGCACCTGGCAGGCCACCCTCAGTC<br>AGCGCTCTCGATGGCGACCCCGCCAGCCTCACCCGGGAAGTGATTGCGCTGGCCCAAGAC<br>GCCGAGGTGGAGCTGGAGCGGCAGCGTGGGCTGCTGCAGCAGATCGGGGATGCCCTGTGC<br>AGCCAGCGGGGGAGGGTGGCCACCGCGGCCCTCCCGCCAGCCGCGTGTGCCTGTGACC<br>CCCGCGCCGGCGGTGATTCCCATCCTGGTCATCGCCTGTGACCGCAGCACTGTTCCGGCGC<br>TGCTTGACAAGCTGCTGCATTATCGGCCCTCGGCTGAGCTCTTCCCCATCATCGTTAGC<br>CAGGACTGCGGGCACGAGGAGACGGCCAGGCCATCGCCTCTACGGCAGCGCGTCCAG<br>CACATCCGGCAGCCGACCTGAGCAGCATTGCGGTGCCGCGGACCACCGCAAGTCCAG<br>GGCTACTACAAGATCGCGCGCCACTACCGCTGGGCGCTGGGCCAGGTCTTCCGGCAGTTT<br>CGCTTCCCGCGGCCGTGGTGGTGGAGGATGACCTGGAGGTGGCCCCGGACTTCTTCGAG<br>TACTTTCGGGCCACCTATCCGCTGCTGAAGGCCGACCCCTCCCTGTGGTGCCTCTCGGCC<br>TGGAATGACAACGGCAAGGAGCAGATGGTGGACGCCAGCAGGCCTGAGCTGCTCTACCGC<br>ACCGACTTTTTCCCTGGCCTGGGCTGGCTGCTGTTGGCCGAGCTCTGGGCTGAGCTGGAG<br>CCCAAGTGGCCAAAGCCTTCTGGGACGACTGGATGCGGCGGCCGGAGCAGCGGCAGGGG<br>CGGGCCTGCATACGCCCTGAGATCTCAAGAACGATGACCTTTGGCCGCAAGGGTGTGAGC<br>CACGGGCAGTTCTTTGACCAGCACCTCAAGTTTATCAAGCTGAACCAGCAGTTTGTGCAC<br>TTCACCCAGCTGGACCTGTCTTACCTGCAGCGGGAGGCCTATGACCGAGATTTCTCGCC<br>CGCGTCTACGGTGTCTCCCGAGCTGCAGGTGGAGAAAGTGAGGACCAATGACCGGAAGGAG<br>CTGGGGGAGGTGCGGGTGCAGTATACGGGCAGGGACAGCTTCAAGGCTTTCGCCAAGGCT<br>CTGGGTGCATGGATGACCTTAAGTCGGGGTTCGAGAGCTGGTACCGGGGATTGTG<br>ACCTTCCAGTTCCGGGGCCCGCTGTCCACCTGGCGCCCCACTGACGTGGGAGGGCTAT<br>GATCCTAGCTGGAAT |
| Restriction Sites:   | Please inquire   |
| ACCN:                | NM_001114619   |



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|-------------------------------|--|
| <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_001114619.1</a></u> , <u><a href="#">NP_001108091.1</a></u>  |
| <b>RefSeq Size:</b>           | 2658 bp  |
| <b>RefSeq ORF:</b>            | 1338 bp  |
| <b>Locus ID:</b>              | 4245   |
| <b>UniProt ID:</b>            | <u><a href="#">P26572</a></u>  |
| <b>Cytogenetics:</b>          | 5q35.3   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <b>Protein Pathways:</b>      | Metabolic pathways, N-Glycan biosynthesis  |
| <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. UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I is a medial-Golgi enzyme essential for the synthesis of hybrid and complex N-glycans. The protein, encoded by a single exon, shows typical features of a type II transmembrane protein. The protein is believed to be essential for normal embryogenesis. Several variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 6. Variants 1-23 all encode the same protein.</p> |