

## Product datasheet for **MC215952**

### **Mgat1 (NM\_010794) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mgat1 (NM_010794) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mgat1
Synonyms:	Mgat-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC215952 representing NM\_010794  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAAGAAGCAGACTGCAGGGCTTGTGCTTTGGGGTCTATCATCTTTGTGGCTGGAATGCCCTGC  
 TGCTTCTCTTCTTCTGGACAGCCCAGCACCTGGCAGGCTGCCCTCAGACAGCGCCCTTGGTGATGACCC  
 TGCCAGCCTCACCCGTGAGGTATCCACCTGGCCGAGGACGCTGAGGCGAGTTGGAGCGCAGAGGGGA  
 CTGTTGCAGAAATCAAGGAGCATTATGCTTTGTGGAGCAGAGGTGGAGAGTCCCACTGTGGCCCTC  
 CAGCCTGGCCCGTGTGCTGTGACCCCTCACCACTGCAGATCCCCATCCTGGTCATTGCTGTGACCG  
 CAGCACTGTCCGGCGCTGCTGGATAAGTTGTTGCACTATCGGCCCTCAGCTGAGCGTTTCCCCATTATT  
 GTCAGTCAGGACTGTGGGCATGAAGAGACAGCACAGGTCATTGCTTCTATGGCACTGCAGTCACACACA  
 TCCGGCAGCCGGACCTGAGTAACATTGCCGTGCAGCCAGACCACCGAAGTCCAGGGTTACTACAAGAT  
 TGCCAGGCACTACCGCTGGGCACTAGGCCAGATTTCAACAAGTCAAGTCCCGGCCGCTGTGGTAGTG  
 GAGGATGATCTGGAAGTGGCACCAGACTTCTTTGAGTACTTCCAGGCCACCTACCACTGCTGAGAACAG  
 ACCCTCCCTTTGGTGTGTGCTGCTTGAATGACAATGGCAAGGAGCAGATGGTAGACTCAAGCAAACC  
 TGAGCTGCTCTATCGAACAGACTTTTTTCTGGCCTTGGATGGCTGCTGTTGGCTGATCTGTGGGCAGAG  
 CTGGAGCCCAAGTGGCCCAAGGCCTTTTGGGACGACTGGATGCGCCGACCTGAGCAGCGAAAGGACGGG  
 CTTGTATTCGTCAGAAATTTCAAGAACTATGACCTTTGGTCGCAAGGGTGTGAGCCACGGGCAGTTCTT  
 TGACCAGCATCTTAAGTTCATCAAGCTGAACCAGCAGTTCGTCCCTTCACCCAGTTGGACCTGTGCTAC  
 CTGCAGCAGGAGGCCATGACCCGGGACTTCCTCGCCAGGTCTATGGTCCCCCAGCTACAGGTGGAGA  
 AAGTAAGGACCAATGATCAGAAGGAGCTGGGGGAGGTGCGGGTACAGTACACTAGCAGAGACAGCTTCAA  
 GGCTTTGCTAAGGCCCTGGGTGTCATGGATGACCTCAAGTCTGGTGTCCCCAGGGCTGGCTACCGTGCC  
 ATTGTCACCTTCCAGTTTCGGGGCCGGCTGTGCACCTGGCACCCCCACAGACATGGACTGGCTATGATC  
 CTAGCTGGAAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_010794

**Insert Size:** 1344 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).

**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\\_010794.3](#), [NP\\_034924.3](#)

RefSeq Size: 3040 bp

RefSeq ORF: 1344 bp

Locus ID: 17308

UniProt ID: [P27808](#)

Cytogenetics: 11 29.27 cM

**Gene Summary:** Initiates complex N-linked carbohydrate formation. Essential for the conversion of high-mannose to hybrid and complex N-glycans.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All variants encode the same isoform.