

## Product datasheet for **MC221615**

### **Mgat5b (NM\_172948) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mgat5b (NM_172948) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mgat5b
Synonyms:	C330018B01; GnT-IX; mGnTVB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221615 representing NM\_172948  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCACAGTCAACCCAGATGGGAAGATAATGGTCAGAAGATGCCTGGTCACCCTGAGACCCTTTCCGGC  
 TGTTTGTCTGGGCATCGCTTCTCACTCTCTGCTTCTGATGACATCTTTGGGAGGCCAGTTCTCTGC  
 CCGGGCCTGGGGGACTCGCCCTTACCATCCGCACAGAAGTGCCAGGCAGCCCAGAGTCACTGCTGGTGC  
 CTTGCAAGATGAGCGACCTGCTGGAGCTGATGGTGAAGCGCATGGATATGCTGGCCAGGCTGGAGAATA  
 GCAGCGAGCTGCACCGGACTGCCAGTGTGGCGCACTTAGCCGCAGACAGGCTCACCCCTGGGGCCAGCCT  
 CATTGAAAGGATCCAGGCCATTGCCAGAATGTGTCTGACATCGTGTGAAGGTGGACCAGATCTGCGC  
 CACAGCCTGATTTCGATAGCAAGGTGTCTGAAGTGGAGGGACCAGTGTGAAGCACCCAGTGACCCCA  
 AGTTCCCTGACTGTTCCGGGAAAGTGGAGTGGATGCGCGCCCGCTGGACCTTGACCCCTGCTACGCCCT  
 CTTTGGAGTAGACGGCACTGAGTGTCTTCTCATCTACCTCAGTGAGGTTGAGTGGTTCTGTCCCCCG  
 TTGCCCTGGAGGAACAGACAGCTGCCCGACAGCCCAAGTCCCTTCCAGAGTCCAGGCTGTGTTC  
 GAAGCAACCTGTCCCACCTCCTGGAGCTGATGGGCAAGTGGGAAGGAGTCCCTCATCTTATGAAGAAGCG  
 AACCAGGCGGTTACCGCACAGTGGACCAAGGCTGCCAAGTACCTGGCACAGAAGCTGGGGGACATTCGG  
 AGGGACCAGAAGCAAACTCTGTCCACATTGGCTTCTGACAGAGGAGTCTGGGGACGTGTTACAGCCAA  
 GGGTACTGAAGGGCGGGCCTCTGGGAGAGATGGTACAGTGGGCAGACATCTGGCTGCTCTCTACGTGCT  
 GGGCCATAGCTGCGGATCACAGTCTCCCTGAAGGAGTGCAGAGTAACCTAGGGGTGCCCCAGGCCGG  
 GGAAGTGGCCACTCACCGTACCTTGCCTTTTGACCTCATCTACACGGACTATCACGGCTTGCAGCAGA  
 TGAACAGCACATGGGACTGTCTTCAAGAAGTACCGGTGCAGAATCCGAGTCATCGACACCTTTGGGATC  
 GGAGCCAGCGTACAACACGAGGAGTATGCCACGCTGCACGGCTACCGGACCAACTGGGGTTACTGGAAC  
 CTAACCCCAAGCAGTTCATGACCATGTTCCCTCACACCCAGACAACCTCCTTATGGGCTTCGTGTCCG  
 AGGAGTCAATGAGACCGAGAAGCAGCTCATCAAAGATGGCAAGGCCAGCAACATGGCGGTGGTGTACGG  
 CAAGGAGCGAGTATCTGGAAGCTCCAGGGCAAGGAGAAGTTCCTGGCCGCTCCTCAACAAGTACATGGAG  
 ATCCACGGTACCGTGTACTATGAGAGCCAGCGCCACCCGAGGTCCCGCCTTCGTGAAGAACCACGGCC  
 TCCTACCGCAGCCTGAGTTCAGCAGCTGCTGCGGAAGGCCAAGCTCTTATAGGGTTCGGATCCCCTA  
 CGAGGGCCAGCACCGTTGGAAGCCATTGCCAATGGCTGCATCTTCTACAGTCTCGCTTACGCCCCGCC  
 CACAGCTCCCTCAACCACGAGTCTTCCGGGGCAAGCCACCTCCAGGGAGGTGTTCTCCAGCATCCGT  
 ATGCAGAGAATTTATTGGCAAGCCGCAGTGTGGACCGTGGACTATAACAACCTCCGATGAGTTTGAAC  
 AGCCATTAAGGCCATCATGAACACCCAGGTAGACCCATATCTGCCTATGAATATACCTGTGCAGGGATG  
 CTGGAACGGATCAATGCCTACATCCAACACCAGGACTTCTGTGTGGGTCCAAGCCCTCTTCCACCAGGGG  
 CCAGCACTGCCAGAGTCCATTTGTCTTAGCTCCTAATGCAACTCATCTCGAGTGGGCCAGAACATCAG  
 CTCAGTTCGGGAGCCTGGCCCCCTACCACTCTGCGGGCCTGGCTGGCAGCCCTGGAAGGGCCTGC  
 ACGGACGCTGCTGGACCATGGATTGATCTGCGAGCCTCCTTCTTCCCTTCCCTCAACAGCCAGAATT  
 CGTTCTCAAGCTGCAGGTGCCCTGTGACAGCACTGAGTGGGAGATGCATCACTTGTACCCTGCCTTTC  
 CCAACCCGGCCAAGAGTGTACCTACAAAAAGAGCCACTGCTCTTACAGCTGTGCTGGTGGCAGACCAAG  
 TACCAGAGGCTCTGCCCTGCCGTGACTTCCGCAAGGGTCAGGTGGCCTTGTGCCAGGGCTGCCT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_172948  
**Insert Size:** 2379 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>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>	<a href="#">NM_172948.3</a> , <a href="#">NP_766536.2</a>
<b>RefSeq Size:</b>	4277 bp
<b>RefSeq ORF:</b>	2379 bp
<b>Locus ID:</b>	268510
<b>UniProt ID:</b>	<a href="#">Q765H6</a>
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	Glycosyltransferase that acts on alpha-linked mannose of N-glycans and O-mannosyl glycans. Catalyzes the transfer of N-acetylglucosamine (GlcNAc) to the beta 1-6 linkage of the mannose residue of GlcNAc-beta1,2-Man-alpha on both the alpha1,3- and alpha1,6-linked mannose arms in the core structure of N-glycan (By similarity). Also acts on the GlcNAc-beta1,2-Man-alpha1-Ser/Thr moiety, forming a 2,6-branched structure in brain O-mannosyl glycan (PubMed:22715095). Plays an active role in modulating integrin and laminin-dependent adhesion and migration of neuronal cells via its activity in the O-mannosyl glycan pathway. [UniProtKB/Swiss-Prot Function]