

## Product datasheet for **MC218865**

### Mgat4b (NM\_145926) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat4b (NM_145926) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mgat4b
Synonyms:	AA407995; GnTIVb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC218865 representing NM\_145926  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGCTCCGCAATGGCACCTTCTGACGCTGCTGCTTCTGCTTGTGCGCCTTCTCTCGTCTCTCT  
 GGTACGCAGCGCTCAGCGGCCAGAAAGGTGACGTGGTGGACATTTACCAGCGCAGTTTCTGGCTCTGCG  
 AGACCGTTTGACCGGGCTGAGCAAGAGAGCCTGAAGCGCTCCAAGGAGCTAAACCTGGTCTGGAAGAA  
 ATCAAGAGGGCAGTATCCGAGAGGCAAGCGCTGCGGGACGGAGAAGGCAATCGCACTTGGGGCCGCTAA  
 CAGAGGATCCGCGACTGAAGCCGTGGAACGTCTCGCACAGGCACGTACTTCATCTGCCACCCTCTTCCA  
 CCATCTGCCGCACCTGCTGGCTAAGGAGAGCAGTCTGCAGCCCGAGTGCAGTGGGCCAGGGCCGACC  
 GGAGTATCCGTGGTATGGGCATTCGAGCGTACGGCGCAGGTGCACTCGTACTTGACTGACACATTGC  
 ACTCGCTCATCTCGGAGCTGAGCCCGCAGGAGAAGGAAGACTCAGTCATCGTGGTCTGATCGCCGAGAC  
 TGACCCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCACACAGAGATCCATTCTGGG  
 CTCTGGAAGTCACTCCCTTCCCTCACTTCTACCCTGACTTCTCCCGCCTTCGAGAGTCTTTGGGG  
 ACCCAAGGAGAGAGTCAGGTGGAGGACAAACAGAACCTCGATTACTGTTCTCATGATGATGCACA  
 GTCCAAAGGCATCTACTATGTGCAGCTGGAGGATGACATTGTAGCCAAGCCCACTACTTGAGCACTATG  
 AAGAACTTTGCCCTCCAGCAGCCCTCCGAGGACTGGATGATCCTGGAGTTCTCGCAGTTGGGCTTATTG  
 GGAAGATGTTCAAGTCACTGGATCTGAGCCTGATTGTGGAGTTTCATCCTCATGTTCTACCGGACAAGCC  
 CATAGACTGGCTCCTGGACCACATCCTGTGGGTGAAAGTCTGCAACCCTGAGAAGGATGCGAAACATTGT  
 GATCGGCAGAAGGCCAACCTTCGGATCCGCTTCAAGCCGTCCCTTTCCAGCATGTGGCCTCACTCAT  
 CACTGGCGGGCAAAATCCAGAACTGAAGGATAAAGACTTTGGAAGCATGCTCTCCGGAAGGAGCACGT  
 GAACCCACCGGCAGAGGTGAGCACAAGCCTCAAGACGTACCAGCATTTCACCTGGAGAAGGCCTACTTG  
 CGGGAGGATTTCTTCTGGCCTTACACCTGCCGAGGAGACTTTATCCGTTCCGCTTCTTCCAGCCAC  
 TGCGCCTTGAGCGTTCTTCTCCGAAGCGGGAACATCGAGCACCCGGAAGATAAGCTCTTCAACTTCT  
 TGTGGAGGTGCTGCCCTTGATAACCCCGAGTCAAGAGAAGGAGCCCTTCCGGAAGGCCGCTCAGCCACT  
 CTCCGGTACCCTAGGAGCCAGATGGATACCTCCAGATTGGCTCCTTCTACAAGGTGTAGCTGAAGGAG  
 AAGTGGATCCTGCCTTTGGCCCCCTGGAAGCACTACGTCTCTCCATTGACTGACTCCCGGTGTGGGT  
 CATTTTGAGTGAGATCTTCTGAAAAAGCCGACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_145926

**Insert Size:** 1647 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\\_145926.3](#), [NP\\_666038.3](#)

**RefSeq Size:** 2429 bp

**RefSeq ORF:** 1647 bp

**Locus ID:** 103534

**UniProt ID:** [Q812F8](#)

**Cytogenetics:** 11 B1.3

**Gene Summary:** Glycosyltransferase that participates in the transfer of N-acetylglucosamine (GlcNAc) to the core mannose residues of N-linked glycans. Catalyzes the formation of the GlcNAc $\beta$ 1-4 branch on the GlcNAc $\beta$ 1-2Man $\alpha$ 1-3 arm of the core structure of N-linked glycans. Essential for the production of tri- and tetra-antennary N-linked sugar chains. Has lower affinities for donors or acceptors than MGAT4A, suggesting that, under physiological conditions, it is not the main contributor in N-glycan biosynthesis (By similarity). [UniProtKB/Swiss-Prot Function]