

Product datasheet for **MC227901**

Mgat4c (NM_001205098) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat4c (NM_001205098) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mgat4c
Synonyms:	9130411I17Rik; GntlVh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227901 representing NM_001205098
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTAAATTTTATCAAATGAAATATATTTTTCAAATATTGGATAAAATGAGATGCTTGCAGAAAACGGT
 CTACAGTGCATTCTTGGGGTTCTTGTGTTTTTCTACTATTTCATGAACTTGTACATTGAAGATAGCTA
 TGTTCTGGAAGGCGACAAGCAACTTATAAGGAAACATCGACACACCAACTTAATTCTGAACGCTATGTT
 CACACTTTCAAGGATTTATCAAACCTTCTCAGGAACCATAAATGCACTTATCGCTATCTGGCTGCCACAC
 CTTTACAGAGAAAACGATATCTCACAATTGGACTTTTCATCAGTAAACGAAAAAAGGAAATTTTACT
 TGACACAATCAAGTCAATTTTTGAACAGTCCAGCTATGAAGAATAAAGGAAATTCAGTCGTAGTACAT
 CTAGCAGACTTCAATTCATCATGGCGAGATGCCATGGTCCAAGACATTACACAGAAATTTGCCATCATA
 TTATTGCAGGAAGATTAATGGTTATACATGCTCCTGAAGAATATTATCCAGTTCTGGATGGTCTTAAAG
 AAATTACAATGACCCAGAAGATAGAGTCAAGTTTCGCTCCAAGCAAACGTAGATTATGCTTTTCTGCTA
 AATTTCTGTGCCAATACTTCTGACTATTACGTGATGCTTGAAGACGATGTTCCGGTGTCCAGAAATTTCT
 TAACTGCCATCAAGAAAGTCATAGCATCCTTGAAGGAACATACTGGGTAACCTTTGAGTTCTCTAACT
 TGGCTACATTGGTAAACTCTATCATTCTCACGATCTCCACGTCTGGCCATTTCTTATTAATGTTCTAT
 CAAGAAATGCCCTGCGATTGGCTATTGACTCATTCCGAGGGCTGCTGGCTCAGAAAAATGTGATTTCGAT
 TTAACCTTCTCTTTTACAGCACATGGGGTATTATTCATCCTATAAAGGAACAGAGAATAAACTGAAGGA
 TGATGACTTTGAAGAAGAGTCCTTTACATCCCTGATAACCCCGAGGAGTTTCTACACCAACATGAAT
 GTCTTTGAAAACATGAAGCAAGCAAGGCTTACAGTAGTGTGATGAGTATTTTTGGGGAAAGTCACCTT
 CAATGGGAGATACGTTTCGTTATTGATTTGAAAATCCGATTACAATTAATAAAATTAAGTGAATACTGG
 AACAGAGGACCGCAGAATGACATCTTACAACATGGAGCCCTAGATGTTGGGGAAAAACTTATTTTACG
 AAACAAATAAGACAATGTGATACTTACTTAAGACTAGGGGAATTCAAAAATGGATACTTTGAAATGTCAG
 ATGTGAATCAAAAAATCCCTTTGACATACATTGCATGAGGATATGTGTTACAAAAACAGAAAGAATG
 GCTGATAATTAGAAGCATCAGTATTTGGACTTCC**TAG**

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001205098
- Insert Size:** 1437 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001205098.1](#), [NP_001192027.1](#)

RefSeq Size: 4279 bp

RefSeq ORF: 1437 bp

Locus ID: 67569

UniProt ID: [Q9D306](#)

Cytogenetics: 10 D1

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 β 1-4 branch on the GlcNAc β 1-2Man α 1-3 arm of the core structure of N-linked glycans. Essential for the production of tri- and tetra-antennary N-linked sugar chains. Does not catalyze the transfer of GlcNAc to the Man α 1-6 arm to form GlcNAc β 1-4Man α 1-6 linkage ('GnT-VI' activity) (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) represents the longest transcript. All three variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.