

Product datasheet for **MC217662**

Mgat4a (NM_173870) Mouse Untagged Clone

Product data:

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|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Mgat4a (NM_173870) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Mgat4a |
| Synonyms: | 9530018I07Rik; glcNAc-T-IVa; GnT-IVa |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC217662 representing NM_173870
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTCCGAAATGGAACGTGGCCACTGCGCTGGTATTTGTCACGTCCTTCCTTACCCTATCCTGGT
 ATACCACGTGGCAAAATGGGAAAGAAAACTAATTGCTTATCAACGAGAATTCCTTGCTCTAAAAGAGCG
 TCTTCGAGTGGCCGAGCATAGGATATCTCAGCGCTCCTCGGAGCTAAACACCATTGTCCAGCAGTCCCGC
 AGAGCTGGAGCAGAGACTAATGGAAGTAAGACAGCTCTGAGTACAATCTCAGATAATACCATAAAGCTTC
 TAAAAGAGTTGACAAGCAAAAACTACTTCGAGTGCCAAGTATTTATTATCATTGCTCATCTATTGCA
 AAATGAAAGAAGCCTTCAGCCCGCCGTACAGATTGGCAGTGGAAGAACGGGAGTTTCAATAGTTATGGGA
 ATTCCTACTGTGAAGAGAGAAGTTAAATCTTACCTCGTAGAAACCCTTCACTCCCTTATTGATAATCTGT
 ATCCTGAAGAGAAGCTGGACTGTGTTATAGTCGCTTTCATAGGAGAGACAGATCTTGATTATGTTACAG
 CGTTGTTGCCAACCTGGAGAAAGATTTTCTAGAGAAATTAGTTCTGGCCTGCTGGAATAATCTCTCCT
 CCTGAAAGCTATTACCCGACTTGACAAACCTGAAGGAGACGTTCCGAGACTCCAAGGAAAGAGTGAGAT
 GGAGAACCAAGCAAAACCTGGATTACTGTTTTCTGATGATGTATGCTCAGGAGAAGGGCATCTACTACAT
 TCAGCTTGAAGACGATATTATTGTCAAACAAAACCTATTTTAATACCATAAAGAAATTTGCACTTCAACT
 TCTTCGGAAGAATGGATGATTCTAGAGTTTTCCAGCTTGGCTTCATTGGAAAAATGTTCCAGGCGCCGG
 ACCTGGCGCTGGTCGTGGAGTTCATCCTCATGTTCTATAAGGAGAAGCCATTGACTGGCTGCTGGACCA
 CATTCTCTGGGTGAAGGTCTGCAACCCGAAAAAGATGCTAAACACTGCGACAGACAGAAGGCAACCTA
 CGAATCCGCTCCGACCCCTCCCTCTCCAGCACGTGGCCCTACACTCGTCTCTGTCGGGGAAGATTGAGA
 AACTCACGATAAAGATTACATGAAGCCATTGCTTCTCAAGGTCCAGTGAACCCGCCTGCAGAGGTCTC
 CACCTCCCTGAAGGTGTACCAAGGGCACACCCTGGAGAAGACCTACATGGGGGAAGACTTCTTTTGGGCC
 ATCACCCACGCTGGAGACTACATCTTGTAAATTTGACAAACCGGTCAACGTGGAGAGTTATTTGT
 TCCACAGCGGCAATCAAGAGCACCCAGGAGACATCCTGCTGAACACGACCGTGGATGTTCTCCCTCTAA
 GAGCGACAGTTTGGAAATCAGCAAAGAAACCAAGACAAACGATTAGAAGATGGCTATTTGAGAATAGGA
 AAATTTGAGTATGGTGTGCAGAGGGAATTGTGGATCCTGGTCTAAACCCATTTTCAGCCTTTCGACTTT
 CCGTTATTCAGAACTCAGCTGTTGGGCCATTCTAATGAGATTCATATAAAAAAGTCACCAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_173870

Insert Size: 1608 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_173870.3](#), [NP_776295.1](#)

RefSeq Size: 7251 bp

RefSeq ORF: 1608 bp

Locus ID: 269181

UniProt ID: [Q812G0](#)

Cytogenetics: 1 B

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. Involved in glucose transport by mediating SLC2A2/GLUT2 glycosylation, thereby controlling cell-surface expression of SLC2A2 in pancreatic beta cells.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.