

Product datasheet for **RN216865**

Mgat4a (NM_001160155) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat4a (NM_001160155) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mgat4a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN216865 representing NM_001160155
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTCCGAAATGGAAGTGTGGCCACTGCGCTGGTGTGTTGTCACGTCCTTCCTTACCCTGTCCTGGT
 ATACCACATGGCAAATGGGAAAGAAAAATTAATTGCTTACCAACGAGAATTCCTCGCTTTAAAAGAACG
 TCTTCGAGTGGCCGAACATAGGATATCTCAGCGCTCCTCTGAGCTAAACACCATTGTCCAACAGTCCGC
 CGAGCTGGAGCGGAGACTAATGGAAGTAAGGCTGGTCTGAGTACGTTCTCAGATAATACCATAAAGCTTC
 TAAAAGAGTTGACAAGCAAAAAATCACTTCAAGTGCCAAGTATTTATTATCATTGCTCATCTATTGCA
 AAATGAAAGAAGCCTTCAGCCCGCCGTACAGATTGGCAGTGAAGAACGGGAGTTTCAATAGTCATGGGG
 ATTCTACTGTGAAGAGAGAAGTAAATCTTACCTCATAGAGACCCTTCACTCCCTTATTGATAATCTGT
 ATCCTGAAGAGAAGCTGGACTGTGTTATAGTTGTCTTCATAGGAGAGACAGATCTTGATTATGTTACAG
 CGTTGTTGCCAACCTGGAGAAAGATTTTCTAGAGAAATTAGTTCGGCTTGCTAGAAGTAACTCTCTCT
 CCTGAAAGCTATTACCCGACTTAACAAACCTGAAGGAGACGTTCCGAGACTCCAAGGAAAGAGTAAAGT
 GGAGAACGAAGCAAAACCTGGACTATTGTTTTCTGATGATGATGCTCAGGAGAAGGGCATTACTACAT
 TCAGCTTGAAGATGATATTATTGTCAAGCAAACTATTTAATACCATAAAAAATTTGCACTTCAACTT
 TCTTCTGAAGAATGGATGATTCTAGAGTTTTCCAGCTGGGCTTCATTGGGAAGATGTTCCAGGCGCCGG
 ACCTAGCTCTGGTTGGAGTTCATTCTCATGTTCTATAAGGAGAAGCCATTGACTGGCTCTTGGACCA
 CATTCTCTGGGTGAAGTCTGCAACCCGAAAAAGATGCCAAACTGCGACAGACAGAAGGCAACCTA
 CGAATCCGCTCCGACCTCCCTCTCCAGCACGTGGGTCTACACTCATCTGTGCGGGAAAAATCAGA
 AACTTACGGATAAAGATTACATGAAACCATTGCTTCTCAAGATCCAGTGAACCCGCTGCAGAGGTCTC
 CACTTCCCTGAAGGTGTACCAAGGGCACACACTGGAGAAGACCTACATGGGGGAAGACTTCTTTTGGCC
 ATCACCCACAGCTGGAGACTACATCTTGTAAATTTGATAAACCGGTCAATGTGGAGAGTTATTGT
 TCCACAGCGCAATCAAGAGCACCCAGGGGACATCCTGCTGAACACGACCGTGGAGGTTCTGCCTTTAA
 GAGCGACAGTTTGGAGATCAGCAAGAAACCAAGACAAACGATTAGAAGATGGCTATTTCAGAATAGGG
 AAATTTGAGTACGGAGTTGCAGAGGGAATTGTGGATCCTGGACTGAACCTATCTCAGCCTTTCGACTGT
 CGGTTATTCAGAACTCTGCTGTCTGGGCCATTCTCAATGAGATTCATATTAAGAAAGTACCAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001160155
- 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).
- 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_001160155.1](#), [NP_001153627.1](#)

RefSeq Size: 7208 bp

RefSeq ORF: 1608 bp

Locus ID: 367252

UniProt ID: [Q5M854](#)

Cytogenetics: 9q21

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 (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.