

Product datasheet for **RN204536**

Mgat4a (NM_001012225) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat4a (NM_001012225) 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: >RN204536 representing NM_001012225
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCTCCGAAATGGAAGTGTGGCCACTGCGCTGGTGTGGTGTGTCACGTCCTTCCTTACCCTGTCCTGGT
 ATACCACATGGCAAATGGGAAAGAAAAATTAATTGCTTACCAACGAGAATTCCTCGCTTTAAAAGAACG
 TCTTCGAGTGGCCGAACATAGGATATCTCAGCGCTCCTCTGAGCTAAACACCATTGTCCAACAGTTCGCG
 CGAGCTGGAGCGGAGACTAATGGAAATAATACCATAAAGCTTCTAAAAGAGTTGACAAGCAAAAAATCAC
 TTCAAGTGCCAAGTATTTATTATCATTTGCCTCATCTATTGCAAATGAAAGAAGCCTTCAGCCCGCGT
 ACAGATTGGCAGTGAAGAACGGGAGTTCAATAGTCATGGGGATTCTACTGTGAAGAGAGAAGTTAA
 TCTTACCTCATAGAGACCCTTCACTCCCTATTGATAATCTGTATCCTGAAGAGAAGCTGGACTGTGTTA
 TAGTTGTCTTCATAGGAGAGACAGATCTTGATTATGTTACAGCGTTGTTGCCAACCTGGAGAAAGAATT
 TTCTAGAGAAATTAGTTCGGCTTGCTAGAAGTAACTCTCCTCCTGAAAGCTATTACCCGACTTAACA
 AACCTGAAGGAGACGTTCCGAGACTCCAAGGAAAGAGTAAGATGGAGAACGAAGCAAAACCTGGACTATT
 GTTTTCTGATGATGATGCTCAGGAGAAGGGCATTACTACATTAGCTTGAAGATGATATTATTGTCAA
 GCAAACTATTTTAAATACCATAAAAAATTTTGCCTTCACTTTCTTCTGAAGAATGGATGATTCTAGAG
 TTTTCCAGCTGGGCTTCATTGGGAAGATGTTCCAGGCGCCGACCTAGCTCTGGTTGTGGAGTTCATTC
 TCATGTTCTATAAGGAGAAGCCATTGACTGGCTTGGACCACATTCTCTGGGTGAAGGTCTGCAACCC
 CGAAAAAGATGCCAAACTGCGACAGACAGAAGGCAACCTACGAATCCGTTCCGACCCTCCCTCTTC
 CAGCACGTGGGTCTACACTCATCTCTGTCGGGAAAATTCAGAACTTACGGATAAAGATTACATGAAAC
 CATTGCTTCTCAAGATCCAGTGAACCCGCTGCAGAGGTCTCCACTTCCCTGAAGGTGTACCAAGGGCA
 CACACTGGAGAAGACCTACATGGGGAAAGACTTCTTTTGGCCATCACCCACAGCTGGAGACTACATC
 TTGTTTAAATTTGATAAACCGGTCAATGTGGAGAGTTATTTGTTCCACAGCGGAATCAAGAGCACCCAG
 GGGACATCTGCTGAACACGACCGTGGAGTCTGCCTCTTAAAGAGCGACAGTTTGGAGATCAGCAAAGA
 AACCAAAGACAAACGATTAGAAGATGGCTATTTTCAAGATAGGGAAATTTGAGTACGGAGTTGCAGAGGGA
 ATTGTGGATCCTGGACTGAACCTATCTCAGCCTTTCGACTGTCGGTTATTACAGAACTCTGCTGTCTGG
 CCATTCTCAATGAGATTCATATTAAGAAAGTACCAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001012225
- Insert Size:** 1581 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_001012225.2](#), [NP_001012225.1](#)

RefSeq Size: 7181 bp

RefSeq ORF: 1581 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 GlcNAcbeta1-4 branch on the GlcNAcbeta1-2Manalpha1-3 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 (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting isoform (2) lacks an internal 10-aa segment, compared to 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.