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Product datasheet for MC228175

Mgat4a (NM_001290801) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat4a (NM_001290801) 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:

>MC228175 representing NM_001290801
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCTCCGAAATGGAACTGTGGCCACTGCGCTGGTATTTGTCACGTCCTTCCTTACCCTATCCTGGT
ATACCACGTGGCAAAATGGGAAAGAAAAACTAATTGCTTATCAACGAGAATTCCTTGCTCTAAAAGAGCG
TCTTCGAGTGGCCGAGCATAGGATATCTCAGCGCTCCTCGGAGCTAAACACCATTGTCCAGCAGTTCCGC
AGAGCTGGAGCAGAGACTAATGGAAATAATACCATAAAGCTTCTAAAAGAGTTGACAAGCAAAAAATCAC
TTCGAGTGCCAAGTATTTATTATCATTTGCCTCATCTATTGCAAAATGAAAGAAGCCTTCAGCCCGCCGT
ACAGATTGGCAGTGGAAGAACGGGAGTTTCAATAGTTATGGGAATTCCTACTGTGAAGAGAGAAGTTAAA
TCTTACCTCGTAGAAACCCTTCACTCCCTTATTGATAATCTGTATCCTGAAGAGAAGCTGGACTGTGTTA
TAGTCGTCTTCATAGGAGAGACAGATCTTGATTATGTTCACAGCGTTGTTGCCAACCTGGAGAAAGAATT
TTCTAGAGAAATTAGTTCTGGCCTGCTGGAAATAATCTCTCCTCCTGAAAGCTATTACCCCGACTTGACA
AACCTGAAGGAGACGTTCGGAGACTCCAAGGAAAGAGTGAGATGGAGAACCAAGCAAAACCTGGATTACT
GTTTTCTGATGATGTATGCTCAGGAGAAGGGCATCTACTACATTCAGCTTGAAGACGATATTATTGTCAA
ACAAAACTATTTTAATACCATAAAGAATTTTGCACTTCAACTTTCTTCGGAAGAATGGATGATTCTAGAG
TTTTCCCAGCTTGGCTTCATTGGAAAAATGTTCCAGGCGCCGGACCTGGCGCTGGTCGTGGAGTTCATCC
TCATGTTCTATAAGGAGAAGCCCATTGACTGGCTGCTGGACCACATTCTCTGGGTGAAGGTCTGCAACCC
CGAAAAAGATGCTAAACACTGCGACAGACAGAAGGCAAACCTACGAATCCGCTTCCGACCCTCCCTCTTC
CAGCACGTGGGCCTACACTCGTCTCTGTCGGGGAAGATTCAGAAACTCACGGATAAAGATTACATGAAGC
CATTGCTTCTCAAGGTCCACGTGAACCCGCCTGCAGAGGTCTCCACCTCCCTGAAGGTGTACCAAGGGCA
CACCCTGGAGAAGACCTACATGGGGGAAGACTTCTTTTGGGCCATCACCCCCACGGCTGGAGACTACATC
TTGTTTAAATTTGACAAACCGGTCAACGTGGAGAGTTATTTGTTCCACAGCGGCAATCAAGAGCACCCAG
GAGACATCCTGCTGAACACGACCGTGGATGTTCTCCCTCTTAAGAGCGACAGTTTGGAAATCAGCAAAGA
AACCAAAGACAAACGATTAGAAGATGGCTATTTCAGAATAGGAAAATTTGAGTATGGTGTTGCAGAGGGA
ATTGTGGATCCTGGTCTAAACCCTATTTCAGCCTTTCGACTTTCCGTTATTCAGAACTCAGCTGTTTGGG
CCATTCTTAATGAGATTCATATTAAAAAAGTCACCAGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001290801

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).

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_001290801.1, NP_001277730.1
RefSeq Size:	7172 bp
RefSeq ORF:	1581 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 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.[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 encoded protein (isoform 2) is shorter than 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.