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Product datasheet for RC228340

MGAT4A (NM_001160154) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT4A (NM_001160154) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MGAT4A
Synonyms:	GnT-4a; GNT-IV; GNT-IVA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC228340 representing NM_001160154
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTACAGTATTACAGTTTCAATAGTCATGGGCATTCCCACAGTGAAGAGAGAAGTTAAATCTTACC
TCATAGAAACTCTTCATTCCCTTATTGATAACCTGTATCCTGAAGAGAAGTTGGACTGTGTTATAGTAGT
CTTCATAGGAGAGACAGATATTGATTATGTACATGGTGTTGTAGCCAACCTGGAGAAAGAATTTTCTAAA
GAAATCAGTTCTGGCTTGGTGGAAGTCATATCACCCCCTGAAAGCTATTATCCTGACTTGACAAACCTAA
AGGAGACATTTGGAGACTCCAAAGAAAGAGTAAGATGGAGAACAAAGCAAAACCTAGATTACTGTTTTCT
AATGATGTATGCTCAAGAAAAGGGCATATATTACATTCAGCTTGAAGATGATATTATTGTCAAACAAAAT
TATTTTAATACCATAAAAAATTTTGCACTTCAACTTTCTTCTGAGGAATGGATGATTCTAGAGTTTTCCC
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TTACAAGGAGAAACCCATTGATTGGCTCCTGGACCATATTCTCTGGGTGAAAGTCTGCAACCCTGAAAAA
GATGCAAAACATTGTGATAGACAGAAAGCAAATCTGCGAATTCGCTTCAGACCTTCCCTTTTCCAACATG
TTGGTCTGCACTCATCACTATCAGGAAAAATCCAAAAACTCACGGATAAAGATTATATGAAACCATTACT
TCTTAAAATCCATGTAAACCCACCTGCGGAGGTATCTACTTCCTTGAAGGTCTACCAAGGGCATACGCTG
GAGAAAACTTACATGGGAGAGGATTTCTTCTGGGCTATCACACCGATAGCTGGAGACTACATCTTGTTTA
AATTTGATAAACCAGTCAATGTAGAAAGTTATTTGTTCCATAGCGGCAACCAAGAACATCCTGGAGATAT
TCTGCTAAACACAACTGTGGAAGTTTTGCCTTTTAAGAGTGAAGGTTTGGAAATAAGCAAAGAAACCAAA
GACAAACGATTAGAAGATGGCTATTTCAGAATAGGAAAATTTGAGAATGGTGTTGCAGAAGGAATGGTGG
ATCCAAGTCTCAATCCCATTTCAGCCTTTCGACTTTCAGTTATTCAGAATTCTGCTGTTTGGGCCATTCT
TAATGAGCAGAGAGTTTTCTCGGGCTGGTGGCAGAAGTCAAGAGACAAAGCAGAAGGACCTCAGGCACCA
TTGCTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228340 representing NM_001160154
Red=Cloning site Green=Tags(s)

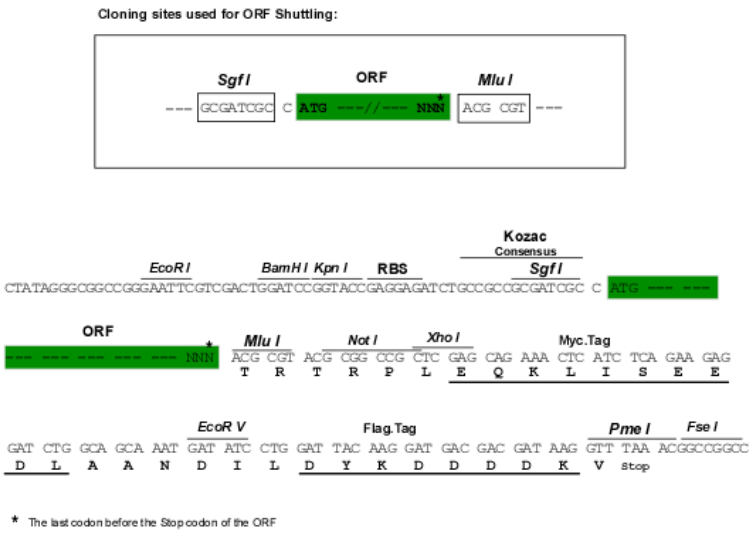
MNYSITVSIVMGIPTVKREVKSYLIETLHSLIDNLYPEEKLDCVIVVFIGETDIDYVHGVVANLEKEFSK
EISSGLVEVISPPESYYPDLTNLKETFGDSKERVRWRTKQNLDYCFLMMYAQEKGIYYIQLEDDIIVKQN
YFNTIKNFALQLSSEEWMILEFSQLGFIGKMFQAPDLTLIVEFIFMFYKEKPIDWLLDHILWVKVCNPEK
DAKHCDRQKANLRIRFRPSLFQHVGLHSSLSGKIQKLTDKDYMKPLLLKIHVNPPAEVSTSLKVYQGHTL
EKTYMGEDFFWAITPIAGDYILFKFDKPVNVESYLFHSGNQEHPGDILLNTTVEVLPFKSEGLEISKETK
DKRLEDGYFRIGKFENGVAEGMVDPSLNPISAFRLSVIQNSAVWAILNEQRVFSGWWQKSRDKAEGPQAP
LLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1153_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001160154

ORF Size: 1269 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001160154.1, NP_001153626.1

RefSeq ORF: 1272 bp

Locus ID: 11320

UniProt ID: Q9UM21

Cytogenetics: 2q11.2

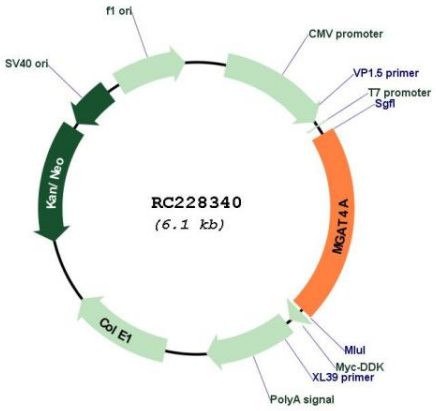
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

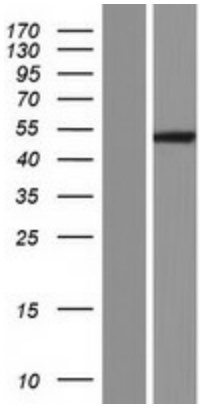
MW: 48.8 kDa

Gene Summary: This gene encodes a key glycosyltransferase that regulates the formation of tri- and multiantennary branching structures in the Golgi apparatus. The encoded protein, in addition to the related isoenzyme B, catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc in a beta-1,4 linkage to the Man-alpha-1,3-Man-beta-1,4-GlcNAc arm of R-Man-alpha-1,6(GlcNAc-beta-1,2-Man-alpha-1,3)Man-beta-1,4-GlcNAc-beta-1,4-GlcNAc-beta-1-Asn. The encoded protein may play a role in regulating the availability of serum glycoproteins, oncogenesis, and differentiation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC228340



Western blot validation of overexpression lysate (Cat# [LY431368]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228340 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).