

Product datasheet for **RC202863**

MGAT2 (NM_001015883) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT2 (NM_001015883) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MGAT2
Synonyms:	GNT2, CDGS2, GNT-II, GLCNACTII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202863 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGTTCCGCATCTACAAACGGAAGGTGCTAATCCTGACGCTCGTGGTGGCCGCTCGCGCTTCGTCC
 TCTGGAGCAGCAATGGGCGACAAAGGAAGAACGAGGCCCTCGCCCCACCGTTGCTGGACGCCGAACCCGC
 CGGGGGTCCCGCGGCCGCGGTGGGACCACCCCTCTGTGGCTGTGGCATCCGCAGGGTCTCCAACGTG
 TCGGCGGCTTCCCTGGTCCCGCGGTCCCCAGCCGAGGCGGACAACCTGACGCTGCGGTACCGGTCCC
 TGGTGTACCAGCTGAACCTTGTACAGACCTGAGGAATGTAGATAAGGCTGGCACCTGGGCCCCCGGA
 GCTGGTGTGGTGGTCCAGGTGCATAACCGGCCGAATACCTCAGACTGCTGCTGGACTCACTTCGAAAA
 GCCCAGGGAATTGACAACGTCCTCGTCATCTTTAGCCATGACTTCTGGTCGACCGAGATCAATCAGCTGA
 TCGCCGGGTGAATTTCTGTCCGGTCTGCAGGTGTTCTTCTTTCAGCATTAGTTGTACCCTAACGA
 GTTTCAGGTAGTGACCCTAGAGATTGTCCAGAGACCTGCCGAAGAATGCCGCTTTGAAATGGGGTGC
 ATCAATGCTGAGTATCCCGACTCCTTCGGCCATTATAGAGAGGCCAAATCTCCCAGACCAACATCACT
 GGTGGTGAAGCTGCATTTTGTGTGGGAAAGAGTGAAAATTTCTTCGAGATTATGCTGGCCTTATACTTTT
 CCTAGAAGAGGATCACTACTTAGCCCCAGACTTTTACCATGTCTTCAAAAAGATGTGAAACTGAAGCAG
 CAAGAGTGCCCTGAATGTGATGTTCTCTCCCTGGGACCTATAGTGCCAGTCGCAGTTTCTATGGCATGG
 CTGACAAGGTAGATGTGAAAACCTTGAAATCCACAGAGACAATATGGGTCTAGCCTTGACCCGGAATGC
 CTATCAGAAGCTGATCGAGTGCACAGACACTTCTGTACTTATGATGATTATAACTGGGACTGGACTCTT
 CAATACTTGACTGTATCTTGTCTTCAAAAATCTGGAAAGTCTGGTTCCTCAAATTCCTAGGATCTTTC
 ATGCTGGAGACTGTGGTATGCATCACAAGAAAACCTGTAGACCATCCACTCAGAGTGCCCAAATGAGTCA
 ACTCTTAAATAATAACAACAATACATGTTTCCAGAAAACCTAACTATCAGTGAAAAGTTTACTGTGGTA
 GCCATTTCCACCTAGAAAAAATGGAGGGTGGGAGATATTAGGACCATGAACTCTGTAAAAGTTATA
 GAAGACTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202863 protein sequence
 Red=Cloning site Green=Tags(s)

MRFRYIKRKVLILTLVVAACGFVLWSSNGRQRKNEALAPLLDAEPARGAGGRGGDHPVAVGIRRVSNV
 SAASLVPAVPQPEADNLTLYRSLVYQLNFDQTLRNVDKAGTWAPRELVLVVQVHNRPEYLRLLDLSLRK
 AQGIDNVLVIFSHDFWSTEINQLIAGVNFQVLPVQVFFPFSIQLYPNEFPGSDPRDCPRDLPKNAALKLGC
 INAEYPSDFGHYREAKFSQTKHHWWKLFVWERVKILRDYAGLILFLEEDHYLAPDFYHVFKMWWKLGKQ
 QECPECDVLSLGTYSASRSFYGMADKVDVKTWKSTEHNMGLALTRNAYQKLIECTDTFCTYDDYNWDWTL
 QYLTVSCLPKFWKVLVPQIPRIFHAGDCGMHKKTCRPSTQSAQIESLLNNKQYMPETLTISEKFTV
 AISPFRKNGWGDIRDHELCKSYRRLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6674_c04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001015883

ORF Size: 1341 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_001015883.1](#), [NP_001015883.1](#)

RefSeq Size: 2531 bp

RefSeq ORF: 1343 bp

Locus ID: 4247

Cytogenetics: 14q21.3

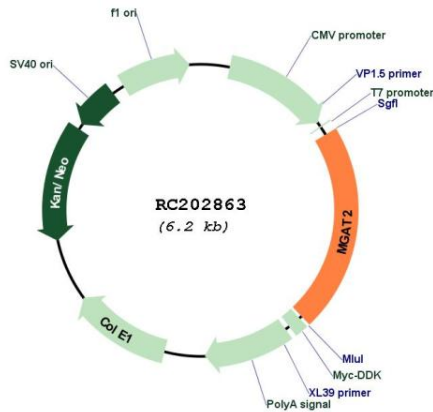
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

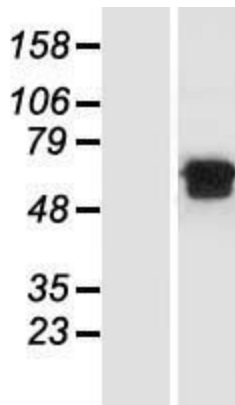
MW: 51.6 kDa

Gene Summary: The product of this gene is a Golgi enzyme catalyzing an essential step in the conversion of oligomannose to complex N-glycans. The enzyme has the typical glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain, and a C-terminal catalytic domain. Mutations in this gene may lead to carbohydrate-deficient glycoprotein syndrome, type II. The coding region of this gene is intronless. Transcript variants with a spliced 5' UTR may exist, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202863



Western blot validation of overexpression lysate (Cat# [LY423132]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202863 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).