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Product datasheet for RG202863

MGAT2 (NM_001015883) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT2 (NM_001015883) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MGAT2
Synonyms:	GNT2, CDGS2, GNT-II, GLCNACTII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG202863 representing NM_001015883
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGTTCCGCATCTACAAACGGAAGGTGCTAATCCTGACGCTCGTGGTGGCCGCCTGCGGCTTCGTCC
TCTGGAGCAGCAATGGGCGACAAAGGAAGAACGAGGCCCTCGCCCCACCGTTGCTGGACGCCGAACCCGC
GCGGGGTGCCGGCGGCCGCGGTGGGGACCACCCCTCTGTGGCTGTGGGCATCCGCAGGGTCTCCAACGTG
TCGGCGGCTTCCCTGGTCCCGGCGGTCCCCCAGCCCGAGGCGGACAACCTGACGCTGCGGTACCGGTCCC
TGGTGTACCAGCTGAACTTTGATCAGACCCTGAGGAATGTAGATAAGGCTGGCACCTGGGCCCCCCGGGA
GCTGGTGCTGGTGGTCCAGGTGCATAACCGGCCCGAATACCTCAGACTGCTGCTGGACTCACTTCGAAAA
GCCCAGGGAATTGACAACGTCCTCGTCATCTTTAGCCATGACTTCTGGTCGACCGAGATCAATCAGCTGA
TCGCCGGGGTGAATTTCTGTCCGGTTCTGCAGGTGTTCTTTCCTTTCAGCATTCAGTTGTACCCTAACGA
GTTTCCAGGTAGTGACCCTAGAGATTGTCCCAGAGACCTGCCGAAGAATGCCGCTTTGAAATTGGGGTGC
ATCAATGCTGAGTATCCCGACTCCTTCGGCCATTATAGAGAGGCCAAATTCTCCCAGACCAAACATCACT
GGTGGTGGAAGCTGCATTTTGTGTGGGAAAGAGTGAAAATTCTTCGAGATTATGCTGGCCTTATACTTTT
CCTAGAAGAGGATCACTACTTAGCCCCAGACTTTTACCATGTCTTCAAAAAGATGTGGAAACTGAAGCAG
CAAGAGTGCCCTGAATGTGATGTTCTCTCCCTGGGGACCTATAGTGCCAGTCGCAGTTTCTATGGCATGG
CTGACAAGGTAGATGTGAAAACTTGGAAATCCACAGAGCACAATATGGGTCTAGCCTTGACCCGGAATGC
CTATCAGAAGCTGATCGAGTGCACAGACACTTTCTGTACTTATGATGATTATAACTGGGACTGGACTCTT
CAATACTTGACTGTATCTTGTCTTCCAAAATTCTGGAAAGTGCTGGTTCCTCAAATTCCTAGGATCTTTC
ATGCTGGAGACTGTGGTATGCATCACAAGAAAACCTGTAGACCATCCACTCAGAGTGCCCAAATTGAGTC
ACTCTTAAATAATAACAAACAATACATGTTTCCAGAAACTCTAACTATCAGTGAAAAGTTTACTGTGGTA
GCCATTTCCCCACCTAGAAAAAATGGAGGGTGGGGAGATATTAGGGACCATGAACTCTGTAAAAGTTATA
GAAGACTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

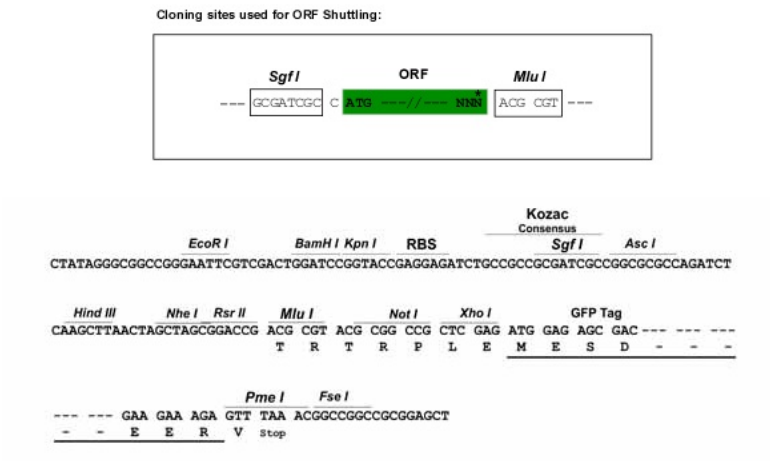
>RG202863 representing NM_001015883
Red=Cloning site Green=Tags(s)

MRFRIYKRKVLILTLVVAACGFVLWSSNGRQRKNEALAPPLLDAEPARGAGGRGGDHPSVAVGIRRVSNV
SAASLVPAVPQPEADNLTLRYRSLVYQLNFDQTLRNVDKAGTWAPRELVLVVQVHNRPEYLRLLLDSLRK
AQGIDNVLVIFSHDFWSTEINQLIAGVNFCPVLQVFFPFSIQLYPNEFPGSDPRDCPRDLPKNAALKLGC
INAEYPDSFGHYREAKFSQTKHHWWWKLHFVWERVKILRDYAGLILFLEEDHYLAPDFYHVFKKMWKLKQ
QECPECDVLSLGTYSASRSFYGMADKVDVKTWKSTEHNMGLALTRNAYQKLIECTDTFCTYDDYNWDWTL
QYLTVSCLPKFWKVLVPQIPRIFHAGDCGMHHKKTCRPSTQSAQIESLLNNNKQYMFPETLTISEKFTVV
AISPPRKNGGWGDIRDHELCKSYRRLQ

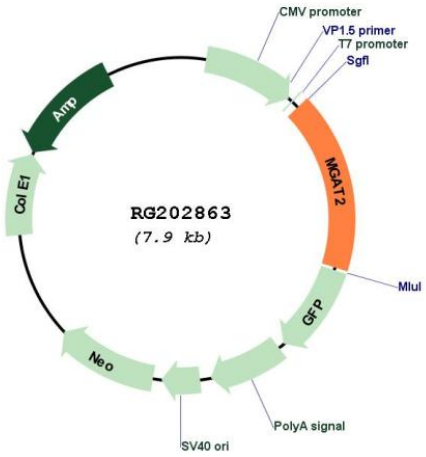
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
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]