

Product datasheet for **RC213548**

MGAT5 (NM_002410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT5 (NM_002410) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MGAT5
Synonyms:	glcNAc-T V; GNT-V; GNT-VA; MGAT5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC213548 representing NM_002410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCTTCACTCCGTGGAAGTTGCTCCTCAGAAGCTGGGCTTTTTCTGGTGACTTTTGGCTTCA
 TTTGGGGTATGATGCTTCTGCACCTTACCATCCAGCAGCGAACTCAGCCTGAAAGCAGCTCCATGCTGCG
 CGAGCAGATCCTGGACCTCAGCAAAAGGTACATCAAGGCACTGGCAGAAGAAAACAGGAATGTGGTGGAT
 GGGCCATACGCTGGAGTCATGACAGCTTATGATCTGAAGAAAACCCTTGCTGTGTATTAGATAACATTT
 TGCAGCGCATTGGCAAGTTGGAGTCGAAGTGGACAATCTTGTGTCAATGGCACCGGAACAACTCAAC
 CAACTCCACTACAGCTGTTCCAGCTTGGTTGCACCTTGAGAAAATTAATGTGGCAGATATCATTAAACGGA
 GCTCAAGAAAAATGTGATTGCCTCTATGGACGGCTACCCTCACTGTGAGGGAAAGATCAAGTGGATGA
 AAGACATGTGGCTTCAGATCCCTGCTACGCAGACTATGGAGTGGATGGATCCACCTGCTCTTTTTTAT
 TTACCTCAGTGAGTTGAAAATGGTGTCTCATTACCTTGGAGAGCAAAAATCCCTACGAAGAAGCT
 GATCATAATTCATTGGCGGAAAATTCGTACAGATTTAATATTCTCTACAGTATGATGAAAAAGCATGAAG
 AATCCGGTGGATGAGACTACGGATCCGGCGAATGGCTGACGCATGGATCCAAGCAATCAAGTCCCTGGC
 AGAAAAGCAGAACCTTGAAAAGAGAAAGCGGAAGAAAGTCCCTCGTTCACCTGGGACTCCTGACCAAGGAA
 TCTGGATTTAAGATTGCAGAGACAGCTTTCAGTGGTGGCCCTCTTGGTGAATTAGTTCAATGGAGTGATT
 TAATTACATCTCTGACTTACTGGGCCATGACATTAGGATTTTCAGCTTCACTGGCTGAGCTCAAGGAAAT
 CATGAAGAAGTTGTAGGAAACCGATCTGGCTGCCAACTGTAGGAGACAGAATTGTTGAGCTCATTTAC
 ATTGATATTGTAGGACTTGCTCAATTCAGAAAACCTTGGACCATCCTGGGTTTCATTACAGTGCATGC
 TCCGACTCCTTGATTCAATTTGGTACTGAACCCGAATTTAATCATGCAAAATTAATGCCCAATCGAAAGGCCA
 CAAGACCCCTTGGGAAAATGGAATCTGAACCCTCAGCAGTTTTATACCATGTTCCCTCATACCCAGAC
 AACAGCTTTCTGGGGTTTGTGGTTGAGCAGCACCTGAACTCCAGTGATATCCACCACATTAATGAAATCA
 AAAGGCAGAACCAGTCCCTTGTGTATGGCAAAGTGGATAGCTTCTGGAAGAATAAGAAGTCTACTTGGA
 CATTATTCACACATACATGGAAGTGCATGCAACTGTTTATGGCTCCAGCACAAAGAATATCCAGTTAC
 GTGAAAAACCATGGTATCCTCAGTGGACGGACCTGCAGTTCCTTCTCGAGAAACCAAGTTGTTTGTG
 GACTTGGGTTCCCTTACGAGGGCCAGCTCCCCTGGAAGCTATCGCAAATGGATGTGCTTTTCTGAATCC
 CAAGTTCAACCCACCCAAAAGCAGCAAAAACACAGACTTTTTTTCATTGGCAAGCCAACTCTGAGAGAGCTG
 ACATCCCAGCATCCTTACGCTGAAGTTTTTCATCGGGCGGCCACATGTGTGGACTGTTGACCTCAACAATC
 AGGAGGAAGTAGAGGATGCAGTGAAGCAATTTAAATCAGAAGATTGAGCCATACATGCCATATGAATT
 TACGTGCGAGGGGATGCTACAGAGAATCAATGCTTTTCATTGAAAAACAGGACTTCTGCCATGGGCAAGTG
 ATGTGGCCACCCCTCAGCGCCCTACAGGTCAAGCTTGTGAGCCCGGGCAGTCTGCAAGCAGGTGTGCC
 AGGAGAGCCAGCTCATCTGCGAGCCTTCTTTCTCCAGCACCTCAACAAGGACAAGGACATGCTGAAGTA
 CAAGGTGACCTGCCAAAGCTCAGAGCTGGCCAAGGACATCCTGGTGCCTCCTTTGACCCTAAGAATAAG
 CACTGTGTGTTTCAAGGTGACCTCCTGCTCTTTCAGCTGTGCAGGGCCACCCAGGCACCCAGAGGGTCT
 GCCCTGCCGGGACTTCATCAAGGGCCAGTGGCTCTCTGCAAAGACTGCCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213548 representing NM_002410
Red=Cloning site Green=Tags(s)

MALFTPWKLSSQKLGFFLVTFGFIWGMMLLHFTIQRTQPESSSMLREQILDLSKRYIKALAEENRVVD
 GPYAGVMTAYDLKKTAVLLDNILQRIGKLESKVDNLVNGTGTNSTNSTTAVPSLVALEKINVADIING
 AQEKCVLPPMDGYPHCEGKIKWMKDMWRSDFYADYVGDGSTCSFFIYLSEVENWCPHLPWRAKNPYEEA
 DHNSLAEIRDFNILYSMMKKHEEFRWMLRIRRMADAWIQAIKSLAEKQNLKRRKRVLVLGLLTKKE
 SGFKIAETAFASSGGLGELVQWSDLITSLYLLGHDIRISASLAELKEIMKKVVGNRSGCPTVGDRIVELIY
 IDIVGLAQFKKTLGPSWVHYQCMLRVLDSFGTEPEFNHANYAQSKGHKTPWGKWNLPQFYTFMPHTPD
 NSFLGFVVEQHLNSSDIHHINEIKRQNSLVYGVVDSFVWKNKIYLDIIHTYMEVHATVYGSSTKNIPSY
 VKNHGILSGRDLQFLRETKLFVGLGFPYEGPAPLEAIANGCAF LNPKFNPPKSSKNTDFFIGKPTLREL
 TSQHPYAEVFIGRPHVWTVDLNNQEEVEDAVKAILNQKIEPYMPYEFTCEGMLQRINAFIEKQDFCHGQV
 MWPPLSALQVKLAEPGQSCQVQESQLICEPSFFQHLNKDKDMLKYKVTQSSSELAKDILVPSFDPKKN
 HCVFQGDLLLFCAGAHPRHQVPCPRDFIKGQVALCKDCL

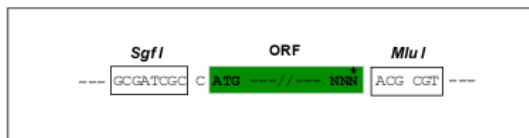
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4359_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_002410

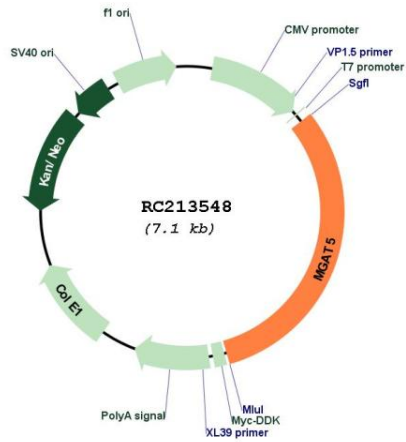
ORF Size: 2223 bp

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:	<ol style="list-style-type: none">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_002410.5
RefSeq Size:	5078 bp
RefSeq ORF:	2226 bp
Locus ID:	4249
UniProt ID:	Q09328
Cytogenetics:	2q21.2-q21.3
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	84.4 kDa
Gene Summary:	The protein encoded by this gene belongs to the glycosyltransferase family. It catalyzes the addition of beta-1,6-N-acetylglucosamine to the alpha-linked mannose of biantennary N-linked oligosaccharides present on the newly synthesized glycoproteins. It is one of the most important enzymes involved in the regulation of the biosynthesis of glycoprotein oligosaccharides. Alterations of the oligosaccharides on cell surface glycoproteins cause significant changes in the adhesive or migratory behavior of a cell. Increase in the activity of this enzyme has been correlated with the progression of invasive malignancies. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC213548