

Specifications:

Gene:	<i>hMGAT1</i>
Accession:	NP_002397
Insert size:	1351bp
Concentration:	10µg at 0.2µg/µL

hMGAT1 cDNA Plasmid

**MGAT1 mannosyl (alpha-1,3)-
glycoprotein beta-1,2-N-
acetylglucosaminyltransferase**
[*Homo sapiens* (human)]

Also known as: GnTI; MGAT;
GLCT1; GLYT1; GNT-1; GNT-I;
GLCNAC-TI

Summary:

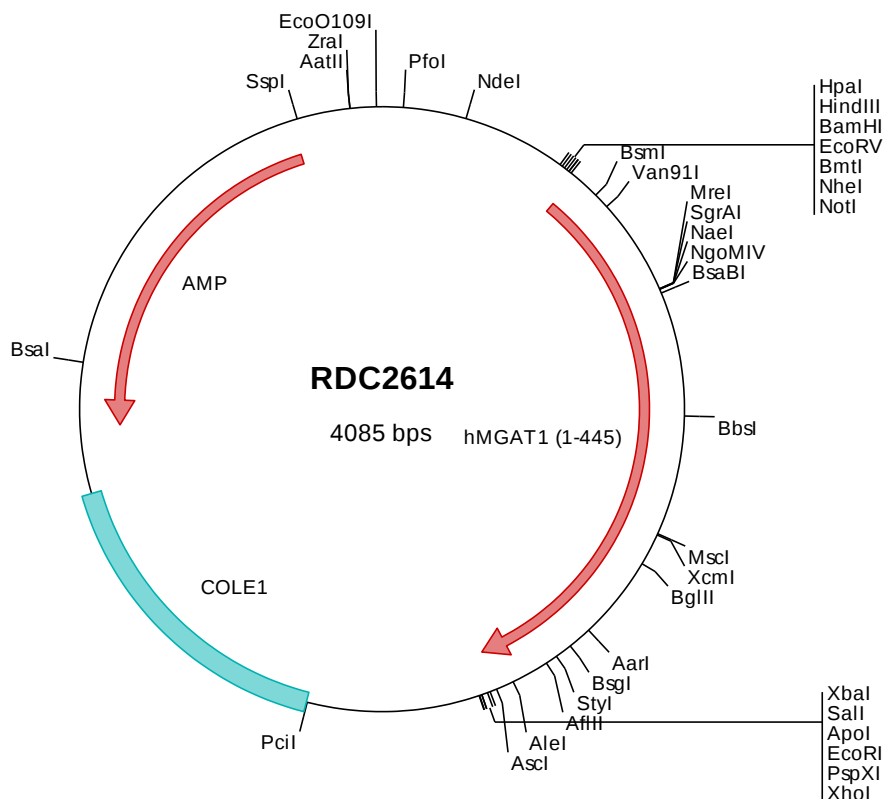
MGAT1 is a type II transmembrane Golgi enzyme that regulates the branching of N-glycans. By transferring a GlcNAc residue to the alpha 3-linked mannose of the trimannosyl core of N-linked oligosaccharides, MGAT1 initiates the formation of complex and hybrid N-linked carbohydrates. MGAT1 is believed to be essential for normal embryogenesis.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



> RDC2614 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcacggggtg ttggcgggtg tccgggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacac atgctgaaga agcagttctg agggcttctg ctgtggggcg ctatcctctt
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601  acccgggaag tgattgcctt ggcaccaagac gcgcagggtg agctggagcg gcagcgtggg ctgctgcagc agatcgggga tgcctctgtg agccagcggg
701  ggaggggtgcc caccgcggcc cctcccgccc agcgcgtgtt gcctgtgacc cccgcgcggg cgggtattcc catcctggtc atcgccgtgt accgcagcac
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1901 acaattccac acaacatacg agccggaagc ataaaagtga aagcctgggg tgccaatga gtgagctaac tcacattaat tgcgttgcgc tcaactgccg
2001 ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcgggcaa cgcgcgggga gaggcgggtt gcgtattggg cgtctctccg cttcctcgct
2101 cactgactcg ctgcgctcgg gcttctggct cgcggcagcg gtatcagctc actcaaaagg ggtaatacgg ttatccacag aatcagggga taacgcagga
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> RDC2614 Translated Insert Sequence

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201  rfpaavvved dlevapdfef yfratypllk adpslwcwva wndngkeqmv dasrpellyr tdffpglglw llaelwaele pkwpkafwdd wmrrepegrqg
301  racirpeisr tmtfgrkgvs hggffdqhlk fiklnqqfwh ftqldlslqy reaydrdfla rvygapqlqv ekvrtndrke lgevrvtqyts rdsfkafaka
401  lgvmdldksg vpragyrgiv tfqfrgrrvh laplwtwegy dpswn

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