

# Recombinant Human mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase, His-tagged

Cat. No. MGAT2-517H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	MGAT2, 30-447aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	30-447 a.a.
<b>Description</b>	<p>MGAT2 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. Transcript variants with a spliced 5' UTR may exist, but their biological validity has not been determined.</p> <p>Recombinant human MGAT2 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	50 kDa (439aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MRQRKNEALA PLLDAEPAR GAGGRGGDHP            SVAVGIRRVSV NVAASLVPA VPQPEADNLT LRYRSLVYQL NFDQTLRNVD            KAGTWAPREL VLVVQVHNRPEYLRLLLLDSL RKAQGIDNVL VIFSHDFWST</p>

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EINQLIAGVN FCPVLQVFFP FSIQLYPNEF PGSDPRDCPR DLPKNAALKL  
 GCINAEYPDS FGHYREAKFS QTKHHWWWKL HFVWERVKIL RDYAGLILFL  
 EEDHYLAPDF YHVFKKMWKL KQCEPECDV LSLGTYSASR SFYGMADKVD  
 VKTWKSTEHN MGLALTRNAY QKLIECTDTF CTYDDYNWDW TLQYLTVSCL  
 PKFWKVLVPQ IPRIFHAGDC GMHHKTCRP STQSAQIESL LNNNKQYMFP  
 ETLTISEKFT VVAISPPRKN GGWGDIRDHE LCKSYRRLQ

<b>Purity</b>	>85% by SDS - PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	1.0 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	MGAT2?mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [?Homo sapiens?(human) ]
<b>Official Symbol</b>	MGAT2
<b>Synonyms</b>	MGAT2; GNT2; CDG2A; CDGS2; GNT-II; GLCNACTII; mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase; alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; glcNAc-T II; mannoside acetylglucosaminyltransferase 2; Beta-1,2-N-acetylglucosaminyltransferase II; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II; UDP-N-acetylglucosamine:alpha-6-D-mannoside beta-1,2-N-acetylglucosaminyltransferase II; NP_002399.1; EC 2.4.1.143
<b>Gene ID</b>	4247

<b>mRNA Refseq</b>	NM_002408
<b>Protein Refseq</b>	NP_002399
<b>MIM</b>	602616
<b>UniProt ID</b>	Q10469
<b>Chromosome Location</b>	14q21
<b>Pathway</b>	Asparagine N-linked glycosylation; N-Glycan biosynthesis; Reactions specific to the complex N-glycan synthesis pathway
<b>Function</b>	alpha-1,6-mannosylglycoprotein 2-beta-N-acetylglucosaminyltransferase activity; carbohydrate binding

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