

## Active Recombinant Human MGAT2 Protein (AA 30-447), N-6xHis/GFP tagged

Cat. No. MGAT2-08H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MGAT2 Protein (AA 30-447) with N-6xHis/GFP tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	AA 30-447
<b>Description</b>	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.
<b>Bio-activity</b>	≥0.6 μmol/min/mg
<b>Molecular Mass</b>	~70 kDa
<b>AA Sequence</b>	RQRKNEALAPLLDAEPARGAGGRGGDHPSVAVGIRRVSNVSAASLVPVAVPQPEA DNLTLRYRSLVYQLNFDQTLRNVDKAGTWAPRELVLVQVHNRPEYLRLLLDSLRK AQGIDNVLVIFSHDFWSTEINQLIAGVNFPCVQLQVFFPFSIQLYPNEFFPGSDPRDCPR

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DLPKNAALKLGCINAIEYPDSFGHYREAKFSQTKHHWWWKLHFVWERVKILRDYAGL  
 ILFLEEDHYLAPDFYHVFKKMWKLKQQECPECDVLSLGTYSASRSFYGMADKVDVK  
 TWKSTEHNMGALALTRNAYQKLIECTDTFCTYDDYNWDWTLQYLTVSCLPKFWKVLV  
 PQIPRIFHAGDCGMHHKKTCPSTQSAQIESLLNNNKQYMFPELTISEKFTVVAISP  
 PRKNGGWGDIRDHELCKSYRRLQ

**Purity** >95%, by SDS-PAGE as visualized by Coomassie Blue Staining

**Stability** >6 months from date of receipt at -20 to -70 centigrade as supplied.  
 1 month at 4 centigrade under sterile conditions after opening

**Concentration** 1 µg/µL

**Storage Buffer** Supplied as a 0.2 µm filtered solution in 20mM HEPES and 100mM NaCl buffer, pH 7.0, with 10% Glycerol.

**Preservative** 0.05 % NaN<sub>3</sub>

**Shipping** This product is shipped as 0.2µm filtered product on dry ice.

## GENE INFORMATION

**Gene Name** [MGAT2 alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [MGAT2](#)

**Synonyms** MGAT2; alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; GNT2; CDG2A; CDGS2; GNT-II; GLCNACTII; alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; Beta-1,2-N-acetylglucosaminyltransferase II; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II; UDP-N-

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acetylglucosamine:alpha-6-D-mannoside beta-1,2-N-acetylglucosaminyltransferase II; glcNAc-T II; mannoside acetylglucosaminyltransferase 2; mannosyl (alpha-1,6)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase; EC 2.4.1.143

**Gene ID** 4247

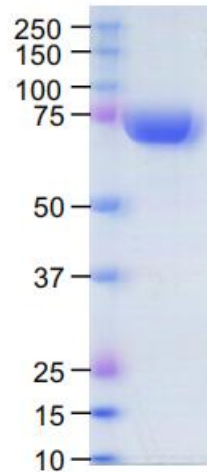
**mRNA Refseq** NM\_002408

**Protein Refseq** NP\_002399

**MIM** 602616

**UniProt ID** Q10469

**SDS-PAGE**



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