

## Product datasheet for **RG228340**

### MGAT4A (NM\_001160154) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT4A (NM_001160154) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MGAT4A
Synonyms:	GnT-4a; GNT-IV; GNT-IVA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228340 representing NM_001160154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATTACAGTATTACAGTTTCAATAGTCATGGGCATTCACACAGTGAAGAGAGAAGTTAAATCTTACC  
TCATAGAACTCTTCATCCCTTATTGATAACCTGTATCCTGAAGAGAAGTTGGACTGTGTATAGTAGT  
CTTCATAGGAGAGACAGATATTGATTATGTACATGGTGTGTAGCCAACCTGGAGAAAGAATTTCTAAA  
GAAATCAGTTCTGGCTTGGTGAAGTCATATCACCCCTGAAAGCTATTATCCTGACTTGACAAACCTAA  
AGGAGACATTTGGAGACTCCAAAGAAAGAGTAAGATGGAGAACAAGCAAACCTAGATTACTGTTTTCT  
AATGATGTATGCTCAAGAAAAGGCATATATTACATTCAGCTTGAAGATGATATTATTGCAAACAAAAT  
TATTTTAAATACCATAAAAAATTTTGCACTTCAACTTTCTCTGAGGAATGGATGATTCTAGAGTTTTCCC  
AGCTGGGCTTCATTGGTAAAATGTTTCAAGCGCCGGATCTTACTCTGATTGTAGAATTCATATTCATGTT  
TTACAAGGAGAAACCCATTGATTGGCTCCTGGACCATAATCTCTGGGTGAAAGTCTGCAACCCTGAAAA  
GATGCAAAACATTGTGATAGACAGAAAGCAAATCTGCGAATTCGCTTCAAGACCTCCCTTTTCCAACATG  
TTGGTCTGCACATCACTATCAGGAAAAATCCAAAACCTCACGGATAAAGATTATGAAACCATTACT  
TCTTAAAATCCATGTAACCCACCTGCGGAGGTATCTACTTCTTGAAGGTCTACCAAGGCATACGCTG  
GAGAAAACCTACATGGGAGAGGATTTCTTCTGGGCTATCACCCGATAGCTGGAGACTACATCTTGTTTA  
AATTTGATAAACCAAGTCAATGTAGAAAGTTATTTGTTCCATAGCGCAACCAAGAACATCCTGGAGATAT  
TCTGCTAAACACAACCTGTGGAAGTTTTGCCTTTAAGAGTGAAGGTTTGGAAATAAGCAAAGAAACCAAA  
GACAAACGATTAGAAGATGGCTATTTTCAAGAAATTTGAGAATGGTGTGAGAAGGAATGGTGG  
ATCCAAGTCTCAATCCCATTTTCAGCCTTTCGACTTTCAGTTATTCAGAATTCGCTGTTTGGGCCATTCT  
TAATGAGCAGAGAGTTTTCTCGGCTGGTGGCAGAAGTCAAGAGACAAAGCAGAAGGACCTCAGGCACCA  
TTGCTGTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228340 representing NM\_001160154  
 Red=Cloning site Green=Tags(s)

MNYSITVSIVMGIPTVKREVKSYLIETLHSLIDNLYPEEKLDCVIVVFIGETDIDYVHGVDVANLEKEFSK  
 EISSGLVEVISPPESYYPDLTNLKETFGDSKERVRWRKQNLDYCFLLMYAQEKGIYYIQLEDDIIVKQN  
 YFNTIKNFALQLSSEEWILEFSQLGFIGKMFQAPDLTLIVEFIFMFYKEKPIDWLLDHILWVKVCNPEK  
 DAKHCDRQKANLRIRFRPSLFQHVGLHSSLGSKIQKLTDKDYMKPLLLKIHVNPPAEVSTSLKVYQGHTL  
 EKTVMGEDFFWAIPIAGDYILFKFDKPVNVESYLFHSGNQEHDPGILLNTTVEVLPFKSEGLEISKETK  
 DKRLEDGYFRIGKFFENGVAEGMVDPSLNPI SAFRLSVIQNSAVWAILNEQRFVSGWWQKSRDKAEGPQAP  
 LLF

TRTRPLE - GFP Tag - V

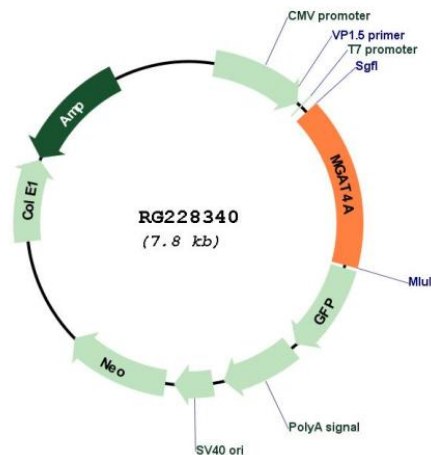
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001160154

<b>ORF Size:</b>	1269 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001160154.1</a> , <a href="#">NP_001153626.1</a>
<b>RefSeq Size:</b>	3726 bp
<b>RefSeq ORF:</b>	1272 bp
<b>Locus ID:</b>	11320
<b>UniProt ID:</b>	<a href="#">Q9UM21</a>
<b>Cytogenetics:</b>	2q11.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>Gene Summary:</b>	This gene encodes a key glycosyltransferase that regulates the formation of tri- and multiantennary branching structures in the Golgi apparatus. The encoded protein, in addition to the related isoenzyme B, catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc in a beta-1,4 linkage to the Man-alpha-1,3-Man-beta-1,4-GlcNAc arm of R-Man-alpha-1,6(GlcNAc-beta-1,2-Man-alpha-1,3)Man-beta-1,4-GlcNAc-beta-1,4-GlcNAc-beta-1-Asn. The encoded protein may play a role in regulating the availability of serum glycoproteins, oncogenesis, and differentiation. [provided by RefSeq, Jul 2008]