

## Product datasheet for **RG209602**

### **MGAT4C (NM\_013244) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MGAT4C (NM_013244) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MGAT4C
Synonyms:	GNTIVH; HGNT-IV-H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209602 representing NM\_013244  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTAAATTTTCATCAAATGAAACATATTTTTGAAATCTTGATAAAATGAGATGCCTGAGAAAACGTT  
 CTACAGTGCATTCTTGGGAGTTCTTGCAATTTTCTCCTTTTTATGAACCTGTACATTGAAGATAGCTA  
 TGTTCTGGAAGGAGACAAACAACCTATAAGGGAACATCCACACATCAACTGAATTCAGAACGCTATGTT  
 CATACTTTCAAGGATTTATCTAATTTCTCAGGAGCCATAAATGTCACCTATCGCTACCTAGCTGCCACAC  
 CTTTACAAAGAAAGCGGTATCTTACAATTGGACTTTCTCAGTAAAGCGAAAAAAGGAACTATTTACT  
 TGAGACAATTAAGTCAATTTTGGAGCAATCCAGCTATGAAGAGCTGAAGGAAATTCAGTGGTGGTTCAC  
 CTAGCAGACTTTAATTTCTCCTGGCGTGATGCCATGGTCCAGGATATTACACAGAAATTTGCGCACCATA  
 TTATTGCAGGAAGATTAATGGTTATACATGCTCCAGAGGAGTATTACCCAATCTAGATGGCCTTAAAG  
 AAATTACAATGATCCAGAAGATAGAGTCAAATTTCTGTTCCAAGCAAAATGTAGATTATGCTTTTCTGCTT  
 AATTTTTGTGCCAATACTTCAGACTATTATGTAATGCTTGAAGATGATGTTTCGATGTTCAAAAAATTTCT  
 TAACTGCCATCAAGAAAGTCATTGCATCCCTAGAAGGAACCTACTGGGTAACCTCTGAATTTCTTAAGCT  
 TGGCTACATTGGTAAACTCTATCATTCTCATGATCTCCACGTTTGGCCATTTTTTATTAATGTTTAT  
 CAAGAAATGCCTTGTGATTGGCTATTGACTCATTCCGTTGGTCTGTTGGCTCAGAAAAATGTGATCCGTT  
 TTAACCATCTCTCTTTCAGCACATGGGCTATTATTCATACATAAAAGGGACGGAGAATAAGCTGAAGGA  
 TGATGATTTTGAAGAGGAGTCAATTTGACATTCCTGATAACCCCTGCAAGTCTGTACACCAACATGAAT  
 GTGTTTAAAAATTATGAAGCAAGCAAGGCTTACAGTAGTGTGATGAGTACTTTTGGGGAAACCACCTT  
 CAACAGGAGATGTTTTTGTGATTGATTTTGAATAATCAAAATTAATAAAAAAATAAAGTAAATCTGG  
 AACAGAAGATCGGCAAAATGATATTTTGCATCATGGAGCCCTAGATGTTGGGGAAAAACGTTATGCCTAGC  
 AAACAAAGGAGACAATGTTCTAGTTACTTAAGACTAGGAGAATTCAAAAATGAAACTTTGAAATGTCAG  
 GTGTAATCAAAAAATCCATTTGATATACATTGTATGAGGATATATGTCACCAAAACACAAAAGGAATG  
 GCTAATTATTAGGAGTATTAGCATTGGACTTCT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209602 representing NM\_013244  
 Red=Cloning site Green=Tags(s)

MFKFHQMKHIFEILDKMRCLRKRSTVSFLGVLVIFLLFMNLYIEDSYVLEGDQKLIRETSTHQLNSERYV  
 HTFKDLNFSGAINVTYRYLAATPLQRKRYLTIGLSSVKRKKGNLYLETIKSIFEQSSYEELKEISVVVH  
 LADFNSSWRDAMVQDITQKFAHHIIAGRLMVIHAPEEYYPILDGLKRNYPEDRVKFRSKQNVDYAFLL  
 NFCANTSDDYYVLEDDVRCNFKLTAIKKVIASLEGTYWVTFLEFSLKGYIGKLYHSHDLPRLAHFLLMFY  
 QEMPCDWLLTHFRGLLAQKNVIRFKPSLFQHMGYSSYKGTENKLDKDDFEEESFDIPDNPPASLYTNMN  
 VFENYEASKAYSSVDEYFWGKPPSTGDVVFVIFENPIIHKIKVNTGTEDRQNDILHHGALDVGENVMPS  
 KQRRQCSSYLRLGEFKNGNFEMSGVNQKIPFDIHCMRIYVTKTQKEWLIIRSISIWTS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_013244

**ORF Size:** 1434 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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_013244.2](#), [NP\\_037376.1](#)

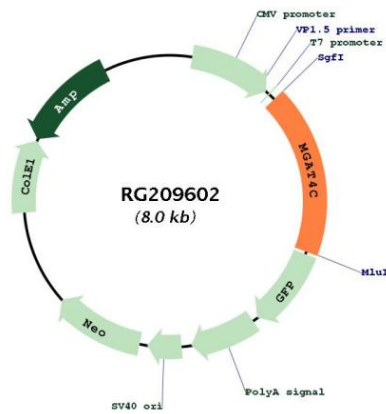
**RefSeq Size:** 2565 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 25834

**UniProt ID:** [Q9UBM8](#)  
**Cytogenetics:** 12q21.31-q21.32  
**Domains:** Glyco\_transf\_55  
**Protein Families:** Transmembrane  
**Gene Summary:** Glycosyltransferase that participates in the transfer of N-acetylglucosamine (GlcNAc) to the core mannose residues of N-linked glycans. Catalyzes the formation of the GlcNAc $\beta$ 1-4 branch on the GlcNAc $\beta$ 1-2Man $\alpha$ 1-3 arm of the core structure of N-linked glycans. Essential for the production of tri- and tetra-antennary N-linked sugar chains (By similarity). Does not catalyze the transfer of GlcNAc to the Man $\alpha$ 1-6 arm to form GlcNAc $\beta$ 1-4Man $\alpha$ 1-6 linkage ('GnT-VI' activity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG209602