

Product datasheet for **RG213186**

MGAT3 (NM_002409) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT3 (NM_002409) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MGAT3
Synonyms:	GNT-III; GNT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213186 representing NM_002409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGATGAGACGCTACAAGCTCTTTCTCATGTTCTGTATGGCCGGCCTGTGCCTCATCTCCTTCTCTGC
 ACTTCTTCAAGACCCTGTCTATGTACCTTCCCCGAGAAGTGGCTCCCTCAGCCCTAACCTGGTGTG
 CAGCTTTTTCTGGAACAATGCCCGGTACGCCCCAGGCCAGCCCCGAGCCAGGAGGCCCTGACCTGCTG
 CGTACCCCACTCTACTCCCACTCGCCCCTGCTGCAGCCGCTGCCGCCAGCAAGCGGCCGAGGAGCTCC
 ACCGGGTGGACTTGGTGTGCCCGAGGACACCACCGAGTATTTCTGCGCACCAAGGCCGGCGGCTCTG
 CTTCAAACCCGGACCAAGATGCTGGAGAGGCCGCCCGGGACGGCCGGAGGAGAAGCCTGAGGGGGCC
 AACGGCTCCTCGGCCCGGCCACCCCGGTACCTCCTGAGCGCCGGGAGCGCACGGGGGGCCGAGGCC
 CCCGGCGCAAGTGGTGGAGTGCCTGTGCTGCCCGGTGGCACGGACCCAGCTGCGGCGTGCCCACTGT
 GGTGCAGTACTCAACCTGCCACCAAGGAGCGGCTGGTCCAGGAGGTGCCGCGCCGCTCATCAAC
 GCCATCAACGTCAACCACGAGTTCGACCTGCTGGACGTGCGCTTCCACGAGCTGGGCGACGTGGTGGACG
 CCTTTGTGGTGTGCGAGTCCAACCTTACGGCTTATGGGGAGCCGCGGCCGCTCAAGTTCCGGGAGATGCT
 GACCAATGGCACCTTCGAGTACATCCGCCACAAGGTGCTCTATGTCTTCTGGACCACTTCCCGCCCGGC
 GGCCGGCAGGACGGTGGATCGCCGACGACTACCTGCGCACCTTCTCACCCAGGACGGCGTCTCGCGGC
 TGCGCAACCTGCGGCCGACGACGTCTTATCATTGACGATGCGGACGAGATCCCGGCCGCTGACGGCGT
 CCTTTCTCAAGCTCTACGATGGCTGGACCGAGCCCTTCGCTTCCACATGCGCAAGTGCCTCTACGGC
 TTCTTCTGGAAGCAGCCGGGCACCCTGGAGTGGTGTGAGGCTGCACGGTGGACATGCTGCAGGCAGTGT
 ATGGGCTGGACGGCATCCGCTGCGCCGCCAGTACTACCCATGCCAACTTCCAGCAAGTATGAGAA
 CCGCACCGGCCACATCCTGGTGCAGTGGTCTGGGCGAGCCCTGCACCTTCGCGGCTGGCACTGCTCC
 TGGTGTTACGCCCCGAGGCATCTACTTCAAGCTCGTGTCCGCCAGAATGGGACTTCCACGCTGGG
 GTGACTACGAGGACAAGCGGGACCTGAACTACATCCGCGGCTGATCCGCACCGGGGCTGGTTCGACGG
 CACGCAGCAGGAGTACCCGCTGCAGACCCAGCGAGCAGTGTATGCGCCCAAGTACCTGCTGAAGAAC
 TACGACCGGTTCCACTACCTGCTGGACAACCCCTACCAGGAGCCAGGAGCACGGCGGGGGCGGGTGGC
 GCCACAGGGTCCCGAGGGAAGGCCGCCCGCCCGGGCAAACCTGGACGAGGCGGAAGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213186 representing NM_002409
 Red=Cloning site Green=Tags(s)

MKMRRYKFLMFCMAGLCLISFLHFFKTL SYVTFPRELASLSPNLVSSFFWNNAPVTPQASPEPGGPDLL
 RTPLYSHSPLLQPLPPSKAAEELHRVDL VLPEDTTEYFVRTKAGGVCFKPGTKMLERPPPPGRPEEKPEGA
 NGSSARRPPRYLLSARERTGGRGARRKWVECVCLPGWHGPSCGVPTVVQYSNLPTKERLVPREVPRRVIN
 AINVNHEFDLLDVRFHGELGVDVDAFVVCESNFTAYGEPRLPKFREMLTNGTFEYIRHKVLYVFLDHFPPG
 GRQDGIADDYLRFTLTQDGVSRRLRNLRPDDVFIIDDAEIPARDGVLFLKLYDGWTEPFAFHMRSLYG
 FFWKQPGTLEVVSCTVDMQLQAVYGLDGIRLRRRQYYTMPNFRQYENRTGHILVQWSLGSPLHFAGWHCS
 WCFTPEGIYFKLVSAQNGDFPRWGDYEDKRDLYIRGLIRTGGWFDGTQQEYPPADPSEHMYAPKYLLKN
 YDRFHLLDNPYQEPRESTAAGGWRHRGPEGRPPARGKLDEAEV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_002409
ORF Size:	1599 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:	<ol style="list-style-type: none">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.
RefSeq:	NM_002409.5
RefSeq Size:	5102 bp
RefSeq ORF:	1602 bp
Locus ID:	4248
UniProt ID:	Q09327
Cytogenetics:	22q13.1
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	There are believed to be over 100 different glycosyltransferases involved in the synthesis of protein-bound and lipid-bound oligosaccharides. The enzyme encoded by this gene transfers a GlcNAc residue to the beta-linked mannose of the trimannosyl core of N-linked oligosaccharides and produces a bisecting GlcNAc. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]