

Product datasheet for **RC222496**

MGAT3 (NM_001098270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT3 (NM_001098270) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MGAT3
Synonyms:	GNT-III; GNT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222496 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATGAGACGCTACAAGCTCTTTCTCATGTTCTGTATGGCCGGCCTGTGCCTCATCTCCTTCTCTGC
 ACTTCTTCAAGACCTGTCTATGTACCTTCCCCGAGAAGTGGCCTCCCTCAGCCCTAACCTGGTGTG
 CAGCTTTTTCTGGAACAATGCCCGGTACGCCCCAGGCCAGCCCCGAGCCAGGAGGCCCTGACCTGCTG
 CGTACCCCACTACTCCCACTCGCCCCTGCTGCAGCCGCTGCCGCCAGCAAGCGGCCGAGGAGCTCC
 ACCGGGTGGACTTGGTGTGCCCGAGGACACCACCGAGTATTTCTGCGCACCAAGGCCGGCGGCTCTG
 CTTCAAACCCGGCACCAAGATGCTGGAGAGGCCGCCCGGGACGGCCGGAGGAGAAGCCTGAGGGGGCC
 AACGGCTCCTCGGCCCGGCCACCCCGGTACCTCCTGAGCGCCGGGAGCGCACGGGGGGCCGAGGCC
 CCCGGCGCAAGTGGTGGAGTGCCTGCTGCCCGGTGGCACGGACCCAGCTGCGGCGTGCCCACTGT
 GGTGCAGTACTCAACCTGCCACCAAGGAGCGCTGGTCCCGAGGAGGTGCCGCGCCGCTCATCAAC
 GCCATCAACGTCAACCACGAGTTCGACCTGCTGGACGTGCGCTTCCACGAGCTGGGCGACGTGGTGGACG
 CCTTTGTGGTGTGCGAGTCCAATTACGGCTTATGGGGAGCCGCGGCCGCTCAAGTTCGGGAGATGCT
 GACCAATGGCACCTTCGAGTACATCCGCCACAAGGTGCTCTATGTCTTCTGGACCACTTCCCGCCCGGC
 GGCCGGCAGGACGGTGGATCGCCGACGACTACCTGCGCACCTTCTCACCCAGGACGGCGTCTCGCGGC
 TGCGCAACCTGCGGCCGACGACGTCTTATCATTGACGATGCGGACGAGATCCCGGCCGTCGACGGCGT
 CCTTTCTCAAGCTCTACGATGGCTGGACCGAGCCCTTCGCTTCCACATGCGCAAGTGCCTCTACGGC
 TTCTTCTGGAAGCAGCCGGCACCCCTGGAGTGGTGTGCTGAGGCTGCACGGTGGACATGCTGCAGGCAGTGT
 ATGGGCTGGACGGCATCCGCTGCGCCGCGCCAGTACTACCCATGCCAACTTCCAGCAAGTATGAGAA
 CCGCACCGGCCACATCCTGGTGCAGTGGTCTGGGCGAGCCCTGCACCTTCGCGGCTGGCACTGCTCC
 TGGTGCTTACGCCCGAGGGCATCTACTTCAAGCTCGTGTCCGCCAGAATGGGACTTCCACGCTGGG
 GTGACTACGAGGACAAGCGGGACCTGAACTACATCCGCGGCTGATCCGCACCGGGGCTGGTTCGACGG
 CACGCAGCAGGAGTACCCGCTGCAGACCCAGCGAGCAGTGTATGCGCCCAAGTACCTGCTGAAGAAC
 TACGACCGGTTCCACTACCTGCTGGACAACCCCTACCAGGAGCCAGGAGCACGGCGGGGGCGGGTGGC
 GCCACAGGGTCCCGAGGGAAGGCCGCCCGCCCGGGGCAAACCTGGACGAGGCGGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222496 protein sequence
 Red=Cloning site Green=Tags(s)

MKMRRYKFLMFCMAGLCLISFLHFFKTL SYVTFPRELASLSPNLVSSFFWNNAPVTPQASPEPGPDLL
 RTPLYSHSPLLQPLPPSKAAEELHRVDLVLPEDTTEYFVRTKAGGVCFKPGTKMLERPPGRPEEKPEGA
 NGSSARRPPRYLLSARERTGGRGARRKWVECVCLPGWHGPSCGVPTVVQYSNLPTKERLVPREVPRRVIN
 AINVNHEFDLLDVRFHGELGDVVDAFVVCESNFTAYGEPRLKFREMLTNGTFEYIRHKVLVYFLDHFPPG
 GRQDGIADDYLRFLTQDGVSRRLRNLRPDDVFIIDDADEIPARDGVFLKLYDGWTEPFAFHMRLSLYG
 FFWKQPGTLEVVSCTVDMLQAVYGLDGIIRLRRRQYYTMPNFRQYENRTGHILVQWSLGSPLHFAWHCS
 WCFTPEGIYFKLVSAQNGDFPRWGDYEDKRDNLNIRGLIRTGGWFDGTQQEYPPADPSEHMYAPKYLLKN
 YDRFHLLDNPYQEPSTAAAGWRHRGPEGRPPARGKLDAAEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6462_e09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001098270

ORF Size: 1599 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

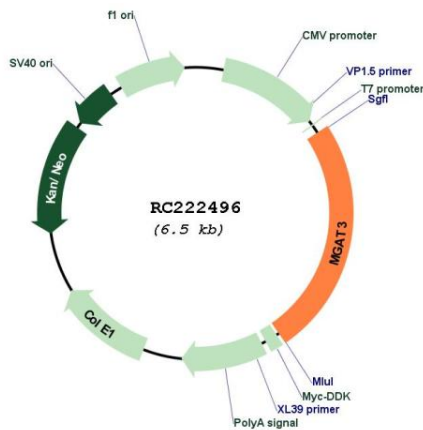
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

RefSeq: [NM_001098270.1](#), [NP_001091740.1](#)

RefSeq Size: 4987 bp
RefSeq ORF: 1602 bp
Locus ID: 4248
UniProt ID: [Q09327](#)
Cytogenetics: 22q13.1
Protein Families: Transmembrane
Protein Pathways: Metabolic pathways, N-Glycan biosynthesis
MW: 61.3 kDa

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]

Product images:



Circular map for RC222496