

Product datasheet for RC213548L3

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OriGene Technologies, Inc.

MGAT5 (NM_002410) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MGAT5 (NM 002410) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: MGAT5

Synonyms: glcNAc-T V; GNT-V; GNT-VA; MGAT5A

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC213548).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_002410

ORF Size: 2223 bp





MGAT5 (NM_002410) Human Tagged Lenti ORF Clone - RC213548L3

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.

RefSeq: <u>NM 002410.2</u>

RefSeq Size: 5078 bp
RefSeq ORF: 2226 bp
Locus ID: 4249

UniProt ID: Q09328

Cytogenetics: 2q21.2-q21.3

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 84.4 kDa

Gene Summary: The protein encoded by this gene belongs to the glycosyltransferase family. It catalyzes the

addition of beta-1,6-N-acetylglucosamine to the alpha-linked mannose of biantennary N-linked oligosaccharides present on the newly synthesized glycoproteins. It is one of the most

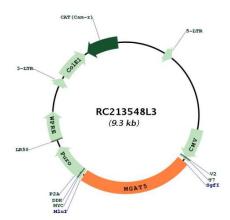
important enzymes involved in the regulation of the biosynthesis of glycoprotein

oligosaccharides. Alterations of the oligosaccharides on cell surface glycoproteins cause significant changes in the adhesive or migratory behavior of a cell. Increase in the activity of this enzyme has been correlated with the progression of invasive malignancies. [provided by

RefSeq, Oct 2011]



Product images:



Circular map for RC213548L3