

Product datasheet for **SC326975**

MGAT4A (NM_001160154) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT4A (NM_001160154) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGAT4A
Synonyms:	GnT-4a; GNT-IV; GNT-IVA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326975 representing NM_001160154. Blue=Insert sequence Red=Cloning site Green=Tag(s)

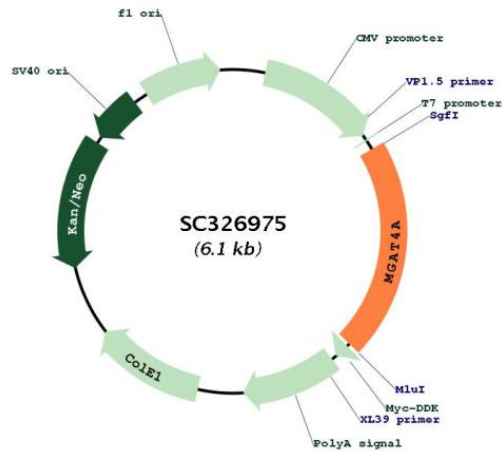
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001160154

Insert Size: 1272 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001160154.1](#)

RefSeq Size: 3726 bp

RefSeq ORF: 1272 bp

Locus ID: 11320

UniProt ID:	Q9UM21
Cytogenetics:	2q11.2
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	48.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) represents use of an alternate promoter and 5' UTR, and lacks an alternate segment in the 3' coding region, compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus, and a longer and distinct C-terminus, compared to isoform 1.</p>