

Product datasheet for RC222615L3

OriGene Technologies, Inc.

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C1GALT1C1 (NM 001011551) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: C1GALT1C1 (NM_001011551) Human Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol: C1GALT1C1

C1GALT2; C38H2-L1; COSMC; HSPC067; MST143; TNPS Synonyms:

Mammalian Cell Puromycin

Selection:

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

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

ORF Nucleotide

Sequence:

The ORF insert of this clone is exactly the same as(RC222615).

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001011551

ORF Size: 954 bp





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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 001011551.1</u>

RefSeq Size: 1743 bp
RefSeq ORF: 957 bp
Locus ID: 29071
UniProt ID: Q96EU7

Cytogenetics: Xq24

Protein Families:

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Transmembrane

MW: 36.4 kDa

Gene Summary: This gene encodes a type II transmembrane protein that is similar to the core 1 beta1,3-

galactosyltransferase 1, which catalyzes the synthesis of the core-1 structure, also known as

Thomsen-Friedenreich antigen, on O-linked glycans. This gene product lacks the

galactosyltransferase activity itself, but instead acts as a molecular chaperone required for the folding, stability and full activity of the core 1 beta1,3-galactosyltransferase 1. Mutations in this gene have been associated with Tn syndrome. Alternatively spliced transcript variants

encoding the same protein have been identified. [provided by RefSeq, Dec 2009]