

Product datasheet for SC301579

C1GALT1C1 (NM_001011551) Human Untagged Clone

Product data:

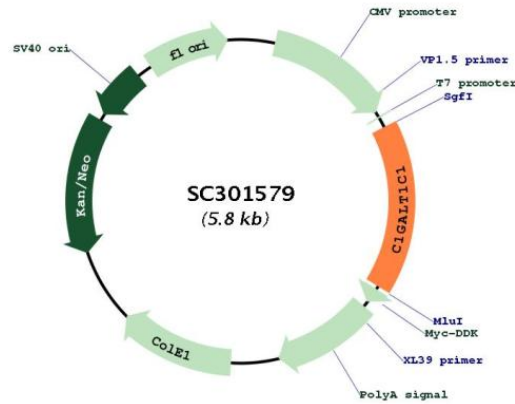
Product Type:	Expression Plasmids
Product Name:	C1GALT1C1 (NM_001011551) Human Untagged Clone
Tag:	Tag Free
Symbol:	C1GALT1C1
Synonyms:	C1GALT2; C38H2-L1; COSMC; HSPC067; MST143; TNPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301579 representing NM_001011551. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTTTCTGAAAGCAGCTCCTTTTGAAGGGTGTGATGCTTGGGAAGCATTCTGTGCTTTGATCACT
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TGGTTCTTCCCTTGACAGCCCACTACGTTTGTATCATTGAAAACCTAAAGTATTTTTGTTAAAAAAG
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CCTGAACAGGGGAGGATGATTTGGAAGATATCTGAAGATAACAGCTAGCAGTTTGCCTGAAATATGCT
GGAGTATTTGCAGAAAATGCAGAAGATGCTGATGGAAAAGATGTATTTAATACCAATCTGTTGGGCTT
TCTATTAAGAGGCAATGACTTATCACCCCAACCGGTAGTAGAAGGCTGTTGTTTCAGATATGGCTGTT
ACTTTTAATGGACTGACTCCAAATCAGATGCATGTGATGATGTATGGGGTATACCGCCTTAGGGCATT
GGGCATATTTCAATGATGCATTGGTTTTCTTACCTCCAATGGTCTGACAATGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001011551

Insert Size: 957 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_001011551.2](#)

RefSeq Size: 1743 bp

RefSeq ORF: 957 bp

Locus ID:	29071
UniProt ID:	Q96EU7
Cytogenetics:	Xq24
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis
MW:	36.4 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>