

## Product datasheet for **SC100742**

### **C1GALT1C1 (NM\_152692) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C1GALT1C1 (NM_152692) Human Untagged Clone
Tag:	Tag Free
Symbol:	C1GALT1C1
Synonyms:	C1GALT2; C38H2-L1; COSMC; HSPC067; MST143; TNPS
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152692, the custom clone sequence may differ by one or more nucleotides

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ATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGTGATGCTTGGAAAGCATTTTCTGTGCTTTGATCACTA
TGCTAGGACACATTAGGATTGGTCATGGAAATAGAATGCACCACCATGAGCATCATCACCTACAAGCTCC
TAACAAAGAAGATATCTGAAAATTTAGAGGATGAGCGCATGGAGCTCAGTAAGAGCTTTCGAGTATAC
TGTATTATCCTTGTAACCCAAAGATGTGAGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACT
GTGACAAAGCAGAGTTCTTCAGTTCTGAAAATGTTAAAGTGTGAGTCAATTAATGGACACAAATGA
CATGTGGTTAATGATGAGAAAAGCTTACAAATACGCCCTTGATAAGTATAGAGACCAATACAAGTGGTTC
TTCCTTGACGCCCCACTACGTTTGCTATCATTGAAAACCTAAAGTATTTTTGTTAAAAAAGGATCCAT
CACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGACCTTGAATATGTGGGTATGGAAGGAGGAAT
TGTCTTAAGTGTAGAATCAATGAAAAGACTTAACAGCCTTCTCAATATCCCAGAAAAGTGTCTGAACAG
GGAGGGATGATTTGGAAGATATCTGAAGATAAACAGCTAGCAGTTGCCTGAAATATGCTGGAGTATTTG
CAGAAAATGCAGAAGATGCTGATGGAAGATGATTTAATACCAATCTGTTGGGCTTTCTATTAAGA
GGCAATGACTTATCACCCCAACCAGGTAGTAGAAGGCTGTTGTTTCAGATATGGCTGTTACTTTTAATGGA
CTGACTCCAAATCAGATGCATGTGATGATGTTGGGTATACCGCCTTAGGGCATTGGGCATATTTTCA
ATGATGCATTGGTTTTCTTACCTCCAAATGGTTCTGACAATGACTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_152692 unedited ATTACCCCGCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCCG GAATTCGGCAGGAGGCCCAACGTGAGAGGAAACCCGTGCGCGGCTGCGCTTTCCTGTCC CCAAGCCGTTCTAGACGGGGAAAAATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGT GATGCTTGAAGCATTCTGTGCTTTGATCACTATGCTAGGACACATTAGGATTGGTCA TGGAAATAGAATGCACCACCATGAGCATCACCTACAAGCTCCTAACAAAGAAGATAT CTTGAAAATTTTCAGAGGATGAGCGCATGGAGCTCAGTAAGAGCTTTCGAGTATACTGTAT TATCCTTGTAACCCAAAGATGTGAGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAA ACACTGTGACAAAGCAGAGTTCTTCAGTTCTGAAAATGTTAAAGTGTGAGTCAATTA TATGGACACAAATGACATGTGGTTAATGATGAGAAAAGCTTACAAATACGCCCTTGATA GTATAGAGACCAATACTACTGGTTCTTCTTGCACGCCCACTACGTTTGTATCATTGA AAACCTAAAGTATTTTTGTTAAAAAAGGATCCATCACAGCTTCTATCTAGGCCACAC TATAAAATCTGGAGACCTTGATATGTGGGTATTGGAAGGGGGATATGTCTTTAGTGTA AATCAATGAAAAGACTTACCAGCTTCTCATATCCANAAAAGTGTCTGACAGGGAGGGTG ATTCGGAAAATTTCTGAAGAAAACGTTAAAATTTGCCTGAATAGTCTGGAGCTCTGTAA TATGCGAATAGCCGTCGCAACAGTCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_152692
<b>Insert Size:</b>	4500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_152692.3</a> , <a href="#">NP_689905.1</a>
<b>RefSeq Size:</b>	1838 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	29071
<b>UniProt ID:</b>	<a href="#">Q96EU7</a>
<b>Cytogenetics:</b>	Xq24
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, O-Glycan biosynthesis

**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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.