

## Product datasheet for SC322042

### 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  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322042  
CAACGAGAGAACCCTGCAGCTAGAACAGCCTGGTCAGGAGCGTAACGGAGTGGTGC  
GCCAACGTGAGAGAAACCCGTGCGCGGCTGCGCTTTCCTGTCCCAAGCCGTTCTAGAC  
GCGGGAAAAATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGTGATGCTTGGAAGCATT  
TTCTGTGCTTTGATCACTATGCTAGGACACATTAGGATTGGTCATGGAATAGAATGCAC  
CACCATGAGCATCATCACCTACAAGCTCCTAACAAAGAAGATATCTTGAAAATTCAGAG  
GATGAGCGCATGGAGCTCAGTAAGAGCTTTCGAGTATACTGTATTATCCTTGAAAACCC  
AAAGATGTGAGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACTGTGACAAAGCA  
GAGTTCCTCAGTCTGAAAATGTTAAAGTGTGAGTCAATTAATATGGACACAAATGAC  
ATGTGGTAAATGATGAGAAAAGCTTACAAATACGCCTTTGATAAGTATAGAGACCAATAC  
AACTGGTTCCTTGCACGCCCACTACGTTTGTATCATTGAAAACCTAAAGTATTTT  
TTGTTAAAAAAGGATCCATCACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGAC  
CTTGAATATGTGGGTATGGAAGGAGGAATTGTCTTAAGTGTAGAATCAATGAAAAGACTT  
AACAGCCTTCTCAATATCCCAGAAAAGTGTCTGAAACAGGGAGGGATGATTTGGAAGATA  
TCTGAAGATAAACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCA  
GAAGATGCTGATGGAAAAGATGTATTTAATACCAAATCTGTTGGGCTTTCTATTAAGAG  
GCAATGACTTATCACCCAACCAGGTAGTAGAAGGCTGTGTTTCCAGATATGGCTGTTACT  
TTAATGGACTGACTCCAATCAGATGCATGTGATGATGATGATGGGGTATACCGCCTTAGG  
GCATTTGGGCATATTTTCAATGATGCATTGGTTTTCTTACCTCCAATGGTTCTGACAAT  
GACTGAGAAGTGGTAGAAAAGCGTGAATATGATCTTTGTATAGGACGTGTTGTGATTA  
TTTGTAGTAGTAACTACATATCCAATACAGCTGTATGTTTCTTTTCTTTTCTAATTTGG  
TGGCACTGGTATAACCACACATTAAGTCAGTAGTACATTTTTAAATGAGGGTGGTTTTT  
TTCTTTAAAACACATGAACATTGTAATGTGTTGGAAAGAAGTGTTTAAGAATAATAAT  
TTTGCAATAAACTATTAATAAATATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire



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|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_152692   |
| <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>OTI Annotation:</b>        | 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.  |
| <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>                | <u><a href="#">NM_152692.3</a></u> , <u><a href="#">NP_689905.1</a></u>   |
| <b>RefSeq Size:</b>           | 1838 bp   |
| <b>RefSeq ORF:</b>            | 957 bp  |
| <b>Locus ID:</b>              | 29071   |
| <b>UniProt ID:</b>            | <u><a href="#">Q96EU7</a></u>   |
| <b>Cytogenetics:</b>          | Xq24  |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Protein Pathways:</b>      | Metabolic pathways, O-Glycan biosynthesis   |
| <b>Gene Summary:</b>          | <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 (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p> |