

Product datasheet for **RG222615**

C1GALT1C1 (NM_001011551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1GALT1C1 (NM_001011551) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C1GALT1C1
Synonyms:	C1GALT2; C38H2-L1; COSMC; HSPC067; MST143; TNPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222615 representing NM_001011551 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGTGATGCTTGGAAAGCATTTTCTGTGCTTTGATCACTA
TGCTAGGACACATTAGGATTGGTCATGGAATAGAATGCACCACCATGAGCATCATCACCTACAAGCTCC
TAACAAAGAAGATATCTGAAAATTTAGAGGATGAGCGCATGGAGCTCAGTAAGAGCTTTGAGTATAC
TGTATTATCCTTGAAAACCCAAAGATGTGAGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACT
GTGACAAAAGCAGAGTTCTTCAGTTCTGAAAATGTTAAAGTGTGAGTCAATTAATGACACAAATGA
CATGTGGTTAATGATGAGAAAAGCTTACAAATACGCCTTTGATAAGTATAGAGACCAATACAAGTCTC
TTCTTGACAGCCCACTACGTTTGTATCATTGAAAACCTAAAGTATTTTTGTTAAAAAGGATCCAT
CACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGACCTTGAATATGTGGGTATGGAAGGAGGAAT
TGTCTTAAGTGTAGAATCAATGAAAAGACTTAACAGCCTTCTCAATATCCAGAAAAGTGTCTGAACAG
GGAGGGATGATTTGGAAGATATCTGAAGATAACAGCTAGCAGTTGCCTGAAATATGCTGGAGTATTTG
CAGAAAATGCAGAAGATGCTGATGGAAGATGATTTAATACCAATCTGTTGGGCTTTCTATTAAGA
GGCAATGACTTATCACCCCAACCAGGTAGTAGAAGGCTGTTGTTTCAGATATGGCTGTTACTTTTAATGGA
CTGACTCCAAATCAGATGCATGTGATGATGTTGGGTATACCGCCTTAGGGCATTGCGCATATTTTCA
ATGATGCATTGGTTTTCTTACCTCCAAATGGTTCTGACAATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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:	<ol style="list-style-type: none">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_001011551.3
RefSeq Size:	1666 bp
RefSeq ORF:	957 bp
Locus ID:	29071
UniProt ID:	Q96EU7
Cytogenetics:	Xq24
Protein Families:	Transmembrane
Protein Pathways:	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]