

## Product datasheet for **SC112158**

### GLT25D1 (COLGALT1) (NM\_024656) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLT25D1 (COLGALT1) (NM_024656) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLT25D1
Synonyms:	BSVD3; ColGalT 1; GLT25D1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_024656, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCGCCACGCGCGGGCCGGCGGGCAGCCGCTCCTGGCGCTGCTGCTTCTGCTGCTGG
CGCCACTGCCCGGGGGCCCGCGGGCGCCGACGCCTACTTCCCGAGGAGCGCTGGAGCCCGGAGTC
GCCCCTGCAGGCGCCGCGCTGCTCATCGCGCTGTTGGCGGAAACGCGGCCACGCGTTGCCACCACG
CTGGGCGCACTCGAGCGCTGCGGCACCCGCGGAGCGCACGGCGCTATGGGTGGCTACGGACCACAACA
TGGATAACACGTCAACTGTGCTGCGGGAGTGGCTGGTGGCCGTGAAGAGTTTGTACCATTCCGTGGAGTG
GCGGCCAGCAGAGGAGCCAGGTCCTACCCGGACGAGGAAGGCCGAAACTGGTCTGACTCACGCTAC
GAGCATGTGATGAAGTTGCGCCAGGAGCCCTGAAATCAGCTCGAGACATGTGGGCTGATTACATCTGT
TTGTAGATGCGGACAACCTGATCCTCAACCCTGACACACTGAGCCTGCTCATCGTGAGAACAAGACGGT
GGTCGCCCCATGCTGGATTCCCGGGTGCCTACTCCAATTCTGGTGTGAATGACTTCCAGGGCTAC
TACAAGCGCACACCTGCCTACATCCCTATCCGCAAGCGAGACCCGCGGGCTGCTTGCAGTTCCCATGG
TGCACTCGACCTTCTGATCGACCTGCGGAAGGCGGCGTCCAGGAACCTGGCCTTCTACCCACCTACCC
TGACTACACCTGGTCCTTTGACGACATCATCGTCTTTGCCTTCTCCTGCAAGCAGGCAGAGGTTGAGTG
TATGTGTGCAACAAGGAGGAGTACGGATTCTTGCCAGTGCCATTGCGCGCCACAGCACCCCTCCAGGATG
AGGCCGAGAGTTCATGCATGTGACGCTGGAGGTCATGGTGAAGCACCCGCCGAGAGCCCTCCCGCTT
CATCTCGGCTCCCAAGACACCGGACAAGATGGGCTTCGACGAGGCTTCATGATCAACCTGAGGCGG
CGGCAGGACCGCGGGAGCGCATGCTGCGGGCGCTGCAGGCACAGGAGATCGAGTGCCGGCTGGTGGAGG
CCGTGGACGGCAAAGCCATGAACACCAGCCAGGTGGAGGCGCTGGGGATCCAGATGCTGCCTGGCTACCG
AAGGAGTGGTGGACCGGGGCTGCAGAAATCGCTTGTGTTGAGGATGACCTGCGTTTTGAGACTTCTGG
TCAAGAGACGCTGTGATGAACCTCATGCGGGATGTGGAGCGGGAGGCGCTGGACTGGGACCTCATCTATGT
GGCCCGAAGCGGATGCAGGTGGAGCACCCGAGAAGGCTGTGCCTCGCGTGAGGAACCTGGTGGAGGCC
GACTATTCCTACTGGACCCTGGCCTACGTGATCTCCCTGCAAGGCGCCGCAAACTGCTGGCTGCTGAGC
CGCTCTCAAGATGCTGCCTGTGGACGAGTTCCTGCCCGTCATGTTGACAAAACCCAGTGTCCGAGTA
CAAGGCCCACTTCTCCCTCCGCAACCTGCATGCCTTCTCTGTGGAGCCGCTGCTCATCTACCCACACAC
TACACAGGAGACGATGGCTATGTGAGTGACACCGAGACCTCAGTCGTATGGAACAATGAGCACGTCAAGA
CCGACTGGGACCGCGCAAGTCCAGAAGATGCGGGAGCAGCAGGCACTGAGCCGTGAGGCCAAGAACTC
GGACGTGCTCCAGTCCCACTGGACAGTGTGCCCGGATGAACTCTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_024656 unedited

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NNGGGTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCTTCATC
TCGGCTCCCACAAAACACCGGACAAGATGGGCTTCGACGAGGCTTTCATGATCAACCTG
AGGCGGGCAGGACCGCGGGAGCGCATGCTGCGGGCGCTGCAGGCACAGGAGATCGAG
TGCCGGCTGGTGGAGCCGTGGACGGCAAAGCCATGAACACCAGCCAGGTGGAGGCGCTG
GGGATCCAGATGCTGCCTGGCTACCGGGACCCCTACCACGGCCGCCCCCTACCAAGGT
GAGCTGGGCTGCTTCTGAGCCACTACAACATCTGGAAGGAGGTGGTGGACCGGGGGCTG
CAGAAATCGTTGTGTTGAGGATGACCTGCGTTTTGAGATCTTCTTCAAGAGACGCTG
ATGAACCTCATGCGGGATGTGGAGCGGGAGGGCCTGGACTGGACCTCATCTATGTGGC
CGGAAGCGGATGCAGGTGGAGCACCCCGAGAAGGCTGTGCCTCGCGTGAGGAACCTGGT
GAGGCCGACTATTCCTACTGGACCCTGGCCTACGTGATCTCCCTGCAAGGCGCCGCAAA
CTGCTGGCTGCTGAGCCGCTCTCAAGATGCTGCCTGTGGACGAGTTCTGCCCGTCATG
TTGACAAAACACCCAGTGTCCGAGTACAAGGCCACTTCTCCCTCCGCAACCTGCATGCC
TTCTCTGTGGAGCCGCTGCTCATCTACCCACACACTACACAGGAGACGATGGCTATGTG
AGTGACACCGAGACCTCAGTCGTATGGAACAATGAGCACGTCAAGACCGACTGGGACCGC
GCCAAGTTCAGAAATGCGGGAGCAGCAGGCACTGAGCCGTGAGCCAAACCTTCAAGATG
CTTCATCCCACTGG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_024656 unedited AGCTATGGACCGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTGGCTGGGAA AACCAACCAGGACATTTATTAATAAACTAAGCAAGTTATCCCCAAGAGGTGAAGCACCGC TGGCTGGTTCTGACATTCGATTCAGGCTGAAGGCACGGCAACTCCTCCAGCCCTTGCTGG GAAATGTCCTACCCAGGCCACGGGCAGTGCCCCAGTGCAGCTGGGTCCCCTAAAAGCCCC CAAACACATGATCCCACAAAGGCTTGAACAGAGCAACTTCATCAAGCAGGCAGGGACCA CACCTGAGACACAAGGGCAAGGAGTAAAGCACAGGGGACTGGGAGTGGGCCAGGGACAC CCAGCCCCGTCTCCAAGTGGCGCCCCCTCCAGGGGGCTAACATGTGGCGTGGGGCCAC CAGGACCTGTGCTTGCCCTGGTGGCGGAAGAGCTACCCTCCCTCTTGGGTGGTGGGGG ATGTTGTCTGCACACAGCTCAGACGACCGAGGGTACAGGAAGAATCAAACCTCAGTCAACC ATTCTTCAACCAACTGGGAGTCTGTGAGGCTGGCACACAGGTGCTCAATAAACTTGTG TGGCATGAAGAAGTGAAGGAACCGATCTTGTTCATCTCTGTGCCCCAGCACTCGGCATGT AGCCCATGATCGAAAATGCAGACTGAACAAGTGCACACTCTTTGTATCACTAGTGCCC GGCACACAGTCAGTGCTTTCANGTGTGTGGGAAAGAGCCAATGAGTGAGAAGTCCCAC ACCGTCTAGCAGTGAGGAAAAAAGAAAAAGTAAAAAGTACCTTGTTTACNTCCATTCCC ATCCCATAGCTCAGCTCCCTGCAACAGCAGGTGCTCAGTGTGTACCGATCAGAAGTTAT CTTTGGACTGAGTGACAGCAACAGAGGGACCAATATGGCTGAATAATGGTAAAGCACTTA TTTCTCATATTCCAACCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024656
<b>Insert Size:</b>	2600 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>	<u><a href="#">NM_024656.1</a></u> , <u><a href="#">NP_078932.1</a></u>
<b>RefSeq Size:</b>	3593 bp
<b>RefSeq ORF:</b>	732 bp
<b>Locus ID:</b>	79709
<b>UniProt ID:</b>	<u><a href="#">Q8NBJ5</a></u>
<b>Cytogenetics:</b>	19p13.11
<b>Domains:</b>	Glyco_transf_25

**Gene Summary:**

The protein encoded by this gene is one of two enzymes that transfers galactose moieties to hydroxylysine residues of collagen and mannose binding lectin. This gene is constitutively expressed and encodes a soluble protein that localizes to the endoplasmic reticulum. [provided by RefSeq, Dec 2015]