

## Product datasheet for **SC108103**

### **GALNT12 (NM\_024642) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GALNT12 (NM_024642) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNT12
Synonyms:	CRCS1; GalNAc-T12
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\_024642, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGGGCGCACGGCGCGGGCGCTGCCCGGGAACTGCGGCGCGGCCGGGAGGCGCTGTTGGTGC
TCCTGGCGCTACTGGCGTTGGCCGGGCTGGGCTCGGTGCTGCGGGCGCAGCGTGGGGCCGGGGCCGGGG
TGGCGAAGCGGGACCCCGCGCACCCCGCGCCCGGGCGGCGGAGCCGGTTCATGCCGCGGCCCGCGGTG
CCGGCGAAGCGCGTGGGCGCGGGGCGAGGCGGTGCGGCTGCAGCTGCAGGGCGAGGAGCTGCGGCTGC
AGGAGGAGAGCGTGGGCTGCACAGATTAACATCTACCTCAGCGACCGCATCTCACTGCACCGCCGCT
GCCCGAGCGCTGGAACCCGCTGTGCAAAGAGAAGAAATGATTATGATAATTTGCCCAGGACATCTGTT
ATCATAGCATTTTATAATGAAGCCTGGTCAACTCTCCTTCGGACAGTTTACAGTGTCTTGGACATCCC
CGGATATCTGCTAGAAGAAGTGATCCTTGTAGATGACTACAGTATAGAGAGCACCTGAAGGAGCGCTT
GGCCAATGAGCTTTCGGGACTGCCAAGGTGCGCCTGATCCGCGCCAACAAGAGAGAGGGCTGGTGGCA
GCCCGGCTGCTGGGGCGTCTGCGGCGAGGGCGATGTTCTGACCTTCTGGACTGTCACTGTGAGTGCC
ACGAAGGGTGGCTGGAGCCGCTGCTGCAGAGGATCCATGAAGAGGAGTCCGCAAGTGGTGTGCCCGGTGAT
TGATGTGATGACTGGAACACCTTGAATACCTGGGAACTCCGGGGAGCCCGAGATCGGCGGTTTCGAC
TGGAGGCTGGTGTTCACGTGGCACACAGTTCCTGAGAGGGAGAGGATACGGATGCAATCCCCCGTCGATG
TCATCAGGTCTCCAACAATGGCTGGTGGGCTGTTTGTGTGAGTAAGAAATATTTTGAATATCTGGGGTC
TTATGATACAGGAATGGAAGTTTGGGGAGGAGAAAACCTCGAATTTTCTTTAGGATCTGGCAGTGTGGT
GGGGTTCTGGAACACACCCATGTTCCCATGTTGGCCATGTTTTCCCAAGCAAGCTCCCTACTCCCGCA
ACAAGGCTCTGGCCAACAGTGTTCGTGCAGCTGAAGTATGGATGGATGAATTTAAGAGCTCTACTACCA
TCGCAACCCCGTGGCCGCTTGGAACTTTTGGGGATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTC
CAGTGTAAAGACTTCAAGTGGTCTTGGAGACTGTGATCCAGAAGTGCATGTGCCTGAGGACAGGCGCTG
GCTTCTTCGGGATGCTCCAGAACAAGGACTAACAGACTACTGCTTTGACTATAACCTCCCGATGAAAA
CCAGATTGTGGGACACAGGTCATTCTGTACCTCTGTCATGGGATGGGCCAGAATCAGTTTTTTCAGTAC
ACGTCCCAGAAAGAAATACGCTATAACACCCACCAGCCTGAGGGCTGCATTGCTGTGGAAGCAGGAATGG
ATACCCTTATCATGCATCTCTGCAAGAAACTGCCCCAGAGAATCAGAAGTTCATCTTGCAGGAGGATGG
ATCTTTATTTACGAACAGTCCAAGAAATGTGTCCAGGCTGCGAGGAAGGAGTCCAGTGCAGTTTCGTT
CCACTCTACGAGACTGCACCAACTCGGATCATCAGAAATGGTCTTCAAAGAGCGCATGTTATGA
    
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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_024642 unedited

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ACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCACCAGATTAACATCTACCTCA
GCGACCGCATCTCACTGCACCGCCGCTGCCCGAGCGTGGAAACCCGCTGTGCAAAGAGA
AGAAATATGATTATGATAATTTGCCCAGGACATCTGTTATCATAGCATTTTATAATGAAG
CCTGGTCAACTCTCCTTCGGACAGTTTACAGTGTCTTGGAGACATCCCGGATATCCTGC
TAGAAGAAGTGATCCTTGTAGATGACTACAGTATAGAGAGCACCTGAAGGAGCGCTTGG
CCAATGAGCTTTCGGGACTGCCCAAGGTGCGCCTGATCCGCGCCAACAAGAGAGAGGGCC
TGGTGCAGACCCGCTGCTGGGGCGTCTGCGGCGAGGGCGATGTTCTGACCTTCTGG
ACTGTCACTGTGAGTGCCACGAAGGGTGGCTGGAGCCGCTGCTGCAGAGGATCCATGAAG
AGGAGTCGGCAGTGGTGTGCCCGGTGATTGATGTGACTGGAACACCTTCAATACC
TGGGAACTCCGGGGAGCCCGATCGGCGGTTTCGACTGGAGGCTGGTGTTCAGTGCC
ACACAGTTCCTGAGAGGGAGAGGATACGGATGNCATCCCCCGTCGATGTCATCAGGTCTC
CAACATGGCTGGTGGGCTGTTTGTGTGAGTAAGAAATATTTTGAATCTGGNGTCTTAT
GATACAGGAATGGNAAGTTGGNGAGGAGAAACCTCGAATTTTCTTTAGGGTGTCCAGGCTG
CTCTACCTGTTNTAGACGCTCTTNTTTCCCTTNNCAAACCTCTTCTTNTTGTGTCNT
TNTATCTTCTGTGGCTAGAGATCAGATCTGCAGGTGGGNGGGGCTGGAAACCACCATG
TNCCCATGTGGCATGNTTNCNAGCAGTNCCTATCCGCAAGCTCTGGCACATTGTG
    
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**Restriction Sites:** NotI-NotI

**ACCN:** NM\_024642

<b>Insert Size:</b>	2550 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_024642.1</a></u> , <u><a href="#">NP_078918.1</a></u>
<b>RefSeq Size:</b>	2752 bp
<b>RefSeq ORF:</b>	855 bp
<b>Locus ID:</b>	79695
<b>UniProt ID:</b>	<u><a href="#">Q8IXK2</a></u>
<b>Cytogenetics:</b>	9q22.33
<b>Domains:</b>	RICIN, Glycos_transf_2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, O-Glycan biosynthesis
<b>Gene Summary:</b>	This gene encodes a member of a family of UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferases, which catalyze the transfer of N-acetylgalactosamine (GalNAc) from UDP-GalNAc to a serine or threonine residue on a polypeptide acceptor in the initial step of O-linked protein glycosylation. Mutations in this gene are associated with an increased susceptibility to colorectal cancer.[provided by RefSeq, Mar 2011]