

## Product datasheet for **SC323708**

### **GALNT14 (NM\_024572) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GALNT14 (NM_024572) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNT14
Synonyms:	GalNac-T10; GalNac-T14; GALNT15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_024572.2  
 GGCATCCCAGTGCACCGCTCCC GCCCCGCCCTTGCCCCAACCCACGATGGTCTGG  
 GAGCTGCGCCAGGGCTTGGCGCTGGCGGCCCGCAACAGCACCGAGCGTTTCGGTCCGG  
 GGGCGCGGTAGCGCCCTCTCAGAGCCCGCTACTCCACCTCGGCTCGCTCCGAGT  
 CGGCCTGTCTGTGGGCCCGCTCCCGCTACTCCCTCCGCCCTCGTGTCTCTCCGG  
 GGTGCTTGGCACAGCCTCGATTCCCTCTCGCTGCTCGAGTCAGTTTCCCTATCCGG  
 GGCAGCGGGCAAGCGCGCGCGCGCCGCGCAGCCCGGTGGCGCGTGGGGAACATC  
 TCGGCAGCCACCGCGTTCTCCCGCTGGAGCGGGCGTCCAGCTTGGCTGCCCTCGGTCT  
 TCCTGCCACGTTTCGGGTGCCCTGCACCCCAACCCAGGCTCGCTTCTCTCGAAGCG  
 GGAAGGGCGCTTGCAGGATCCTGCCGCCCTCCAACCGATCCTGGGTCTAGAGCTCCC  
 CAGAGCGAGGCGCTCGCCAGGACTCCTGCCCGCAACCTGACCGCGGGGGTGGCC  
 CGGGACGTAGCGCCGGAGAGGAAGCGGCAAAGGGGACCATGCGGCGCTGACTCGTCC  
 GCTGGTCTGCCAGTCTTGGGGTCTCTGGATCACGGTGTCTGTTCTTGGGTAAC  
 CAAGAGGAAGTTGAGGTGCCGACGGGACTGAAGTGCAGACCCCTAAGCCTTCGGACGC  
 TACTGGGACGACTGTGGGACAGTTTGTGAGCGGGGTATCTGAATGCCAAAAGTG  
 GCGCGTTGGTGACGACCCCTATAAGCTGTATGCTTCAACCAGCGGGAGAGTGAGCGGAT  
 CTCCAGCAATCGGGCCATCCCGGACACTCGCCATCTGAGATGCACACTGTGGTGTATTG  
 CACGGACCTTCCACCCACTAGCATCATCATCACCTTCCACAACGAGGCCCGCTCCACGCT  
 GCTCAGGACATCCGCGAGTGTATTAACCGCACCCCTACGCATCTGATCCGGGAAATCAT  
 ATTAGTGGATGACTTCAGCAATGACCCTGATGACTGTAACAGCTCATCAAATGGCCAA  
 GGTGAAATGCTTGGCAATAATGAACGGCAAGGTCTGGTCCGGTCCCGGATTCGGGGCGC  
 TGACATCGCCAGGGCACCCTGACTTTCCTCGACAGCCACTGTGAGGTGAACAGGGA  
 CTGGCTCAGCCTCTGTTGCACAGGGTCAAAGAGGACTACACGGGGTGGTGTGCCCTGT  
 GATCGATATCATTAACTGGACACCTTACCTACATCGAGTCTGCCTCGGAGCTCAGAGG  
 GGGTTTGACTGGAGCCTCCACTTCCAGTGGGAGCAGCTCTCCCAAGCAGAAGGCTCG  
 GCGCTGGACCCACGGAGCCATCAGGACTCCTATCATAGCTGGAGGGCTCTTCTGTGAT  
 CGACAAAGCTTGGTTTATTACCTGGGAAATATGATATGGACATGGACATCTGGGGTGG  
 GGAGAAGTTTAAATCTCCTTCCGAGTGTGGATGTGCGGGGCGAGCTAGAGATCGTCCC  
 CTGACCCGAGTGGGCGACGCTTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAAA  
 TGCCAACAGTATATAAAGAACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAA  
 GCAATACTATTACGCTGCCCGGCCATTGCCCTGGAGAGGCCCTTCGGGAATGTTGAGAG  
 CAGATTGGACCTGAGGAAGAATCTGCGCTGCCAGAGCTTCAAGTGGTACCTGGAGAATAT  
 CTACCCTGAAGTCAAGTATCCCAAGGAGTCTCCATCCAGAAGGGCAATATCCGACAGAG  
 ACAGAAGTGCCTGGAATCTCAAAGGCAGAACCAAGAAACCCCAACCTAAAGTTGAG  
 CCCCTGTGCCAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCTTACATACAC  
 CCAGCAGATCCTCCAGGAGGAGCTGTGCCTGTGAGTATCACCTGTTCCCTGGCGCCCC  
 AGTGGTCTTGTCTTTGCAAGAATGGAGATGACCGACAGCAATGGACCAAACTGGTTC  
 CCACATCGAGCACATAGCATCCCACCTTGCCTCGATACAGATATGTTCCGGTGTGGCAC  
 CGAGAACGGCAAGGAAATCGTCGTCACCCATGTGAGTCTCACTCATGAGCCAGCACTG  
 GGACATGGTGTGAGCTCTTGGAGCCCTGCCAGAAGCAGCAAGGGCCATGGGGTGGTGTCT  
 CCTGGACCAGAACAGACTGGAACTGGGACAGCAAGCAGCCTGCAACCACCTCAGACATC  
 CTGGACTGGGAGGTGGAGGCAGAGCCCCCAGGACAGGAGCAACTGTCTCAGGGAGGACA  
 GAGGAAAACATCACAAGCCAATGGGGCTCAAAGACAAATCCCACATGTTCTCAAGCCGT  
 TAAGTCCAGTCTGGCCAGTATTCCCTGATTGGTATCTGGAGACAGAAACCTAATGGG  
 AAGTGTATTATTGTTCTTTCTACAAAGGAAGCAGTCTCTGGAGGCCAGAAAGAAAAGC  
 CTTCTTTTCACTAGGCCAGGACTACATTGAGAGATGAAGAATGGAGGTTGTTCCAAAA  
 GAAATAAAGAGAACTTAGAAGTTGAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_024572

<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_024572.2</a></u> , <u><a href="#">NP_078848.2</a></u>
<b>RefSeq Size:</b>	2762 bp
<b>RefSeq ORF:</b>	1659 bp
<b>Locus ID:</b>	79623
<b>UniProt ID:</b>	<u><a href="#">Q96FL9</a></u>
<b>Cytogenetics:</b>	2p23.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, O-Glycan biosynthesis
<b>Gene Summary:</b>	<p>This gene encodes a Golgi protein which is a member of the polypeptide N-acetylgalactosaminyltransferase (ppGalNAc-Ts) protein family. These enzymes catalyze the transfer of N-acetyl-D-galactosamine (GalNAc) to the hydroxyl groups on serines and threonines in target peptides. The encoded protein has been shown to transfer GalNAc to large proteins like mucins. Alterations in this gene may play a role in cancer progression and response to chemotherapy. [provided by RefSeq, Jun 2016]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>