

Product datasheet for **SC113088**

GALNT1 (NM_020474) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT1 (NM_020474) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNT1
Synonyms:	GALNAC-T1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113088 sequence for NM_020474 edited (data generated by NextGen Sequencing)

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ATGAGAAAATTTGCATACTGCAAGGTGGTCTAGCCACCTCCTTGATTTGGGACTCTTG
GATATGTTCTCTGCTGCTTACTTTCAGTGAATGCAACAAATGTGATGAAAAAAGGAGAGA
GGACTTCTCTGCTGGAGATGTTCTAGAGCCAGTACAAAAGCCTCATGAAGGTCCTGGAGAA
ATGGGGAAACCAGTCGTCATTCTAAAGAGGATCAAGAAAAGATGAAAGAGATGTTTAAA
ATCAATCAGTTCAATTTAATGGCAAGTGAGATGATTGCACTCAACAGATCTTTACCAGAT
GTTAGGTTAGAAGGGTGTAAAACAAAGGTGATCCAGATAATCTTCTACAACAAGTGTG
GTGATTGTTTTCCACAATGAGGCTTGGAGCACACTTCTGCGAACTGTCCATAGTGCATT
AATCGCTCACCAAGACACATGATAGAAGAAATTGTTCTAGTAGATGATGCCAGTAAAGA
GACTTTTTGAAAAGGCCTTTAGAGAGTTATGTGAAAAAATAAAAAGTACCAGTTCATGTA
ATTGCAATGGAACAACGTTCTGGATTGATCAGAGCTAGATTAAGGAGCTGCTGTGTCT
AAAGGCCAAGTGATCACCTTCTGGATGCCATTGTGAGTGTACAGTGGGATGGCTGGAG
CCTCTCTTGGCCAGGATCAAACATGACAGGAGAACAGTGGTGTGTCCCATCATCGATGTG
ATCAGTGATGATACTTTTGGTACATGGCAGGCTCTGATATGACCTATGGTGGGTTCAAC
TGGAAGCTCAATTTTCGCTGGTATCCTGTTCCCAAGAGAAATGGACAGAAGGAAAGGT
GATCGGACTCTTCTGTGAGGACACCTACCATGGCAGGAGGCCTTTTTTCAATAGACAGA
GATTACTTTTCAAGAAATTGGAACATATGATGCTGGAATGGATATTTGGGGAGGAGAAAAC
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CATGTTGGACATGTGTTTCGAAAGCTACACCTTACACGTTTCCAGGAGGCACAGGGCAG
ATTATCAATAAAAATAACAGACGACTTGCAGAAGTGTGGATGGATGAATCAAGAATTTT
TTCTATAAATTTCTCCAGGTGTTACAAAGGTAGATTATGGAGATATATCGTCAAGAGTT
GGTCTAAGACACAACTACAATGCAAACTTTTTTCTGGTACCTAGAGAATATATATCCT
GATTTCTCAAATTCACGTCACACTATTTCTATTGGGAGAGATACGAAATGTGAAACGAAT
CAGTGTCTAGATAACATGGCTAGAAAAGAGAATGAAAAAGTTGGAATTTTTAATTGCCAT
GGTATGGGGGTAATCAGGTTTTCTTTACTGCAACAAAGAAATTAGAACAGATGAC
CTTTGCTTGGATGTTTCCAACTTAATGGCCAGTTACAATGCTCAAATGCCACCACCTA
AAAGGCCAACCACTCTGGGAGTATGACCCAGTGAATTAACCCTGCAGCATGTGAACAGT
AATCAGTGCCTGGATAAAGCCACAGAAGAGGATAGCCAGGTGCCAGCATTAGAGACTGC
AATGGAAGTCGGTCCCAGCAGTGGCTTCTCGAAACGTCACCCTGCCAGAAATATTCTGA

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Clone variation with respect to NM_020474.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_020474 unedited
TTGTAATACGACTCACTATAGGGCGCCGCAATTCGGCAGGAGGGTATGAACGTGA
TTTCTGATGAAACTGGATTGGAATAATTTTCATGATCTTTGTATATTTATATATATAT
TTTTAAATTTTGCAATTTGACTTAAAGTGCCATGAGAAAATTTGCATACTGCAAGGTGGT
CTAGCCACCTCCTTGATTTGGGTACTCTTGGATATGTTCTGCTGCTTTACTTTCAGTGAA
TGCAACAAATGTGATGAAAAAAGGAGAGAGGACTTCTGCTGGAGATGTTCTAGAGCCA
GTACAAAAGCCTCATGAAGGTCCTGGAGAAATGGGGAAACCAGTCGTCATTCTAAAGAG
GATCAAGAAAAGATGAAAGAGATGTTTAAAATCAATCAGTTCAATTTAATGGCAAGTGAG
ATGATTGCACTCAACAGATCTTTACCAGATGTTAGGTTAGAAGGGTGTAAAACAAAGGTG
TATCCAGATAATCTTCTACAACAAGTGTGGTATTGTTTTCCACAATGAGGCTTGGAGC
ACACTTCTGCGAACTGTCCATAGTGTCTTAATCGCTCACCAAGACACATGATAGAAGAA
ATTGTTCTAGTAGATGATGCCAGTGAAGAGACTTTNTGAAAAGGCCTTTAGAGAGTTAT
GTGAAAAACTAANAGTACCAGTTCATGTAAATCGAATGGAACAACGTTCTGGATTGATCA
GAGCTAGATTAAGGAGCTGCTGTGTCTAAAGGCAAGTATCACCTTCTGGATGCCAT
TGTGAGTGTACAGTGGGATGGCTGGAGCCTCTTGGNCAGATCAACATGACAGAGAACA
NGGGTGTGTCATCATCGATGTGATCAGTGTGATGATACTTTTGATACATGGCAGCTCTGAT
ATGACTTATGGTGGGGTCAACTGGAGCTCATTTTGCTTGTTC

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020474 unedited CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTCAGGAATATTTTGT ATTTTCAAAGTATTTAGGAATCTTTAATTAGAAAAATAAAGGCAATGGGATTATCTATC AGGTTCTAAAAGTACCCATGAATTAATCACTTACATCTCCCATTTAAAAACAAAACCTTA AATCACATTGCTGTTAAGCTTTCATACAGTAAGAAATAAGACCAAGCTATGCTGGAGTAC AAAAACCTGAAATTCTGAGCATGAAAATAATTTATTGATTAGACATCTTGCTTATTCAAG CATTAGGCCTACTGGAGATAGAATTAACACAGCTCATGGAAAAGGAAAAAATTCATTCC AGCACCTGCTTCCCTTTCAAATTTCTGGGACATGGTTTATGCATTTTGTACTATAGACT CACCTAAAGCATCCCCATGTGCTTGATGTTGATTAACCTGAACAGGATATGAGAAACTT TGTGTACTACTCAACTTGGCAAATATCATTAGCGATGCGACTTTCGAAACATTTTTAGGC ACAAGAAATACCACTGCCTGCAGTGAAGCCCTTGATATAAAAACAAAAACCCCATTA TTCCTTCTCCAATCTGACAGAAAATTTTGGCTTTTTGGCAACAACTGTTCTACCTAT AAGAAAAAGCGCTAATGATATTCCTCCTCCAAATAAAAGGTACCTCTTAATGAACACTT TACTTGACCTTAGGAGACTTGTGGGCTCAAACACATCCGAGACACATAACCTGTTTATC CTAAATATATTCAGGAAAAAATTCAGCCCCTAATATGGATAACATCCGCCCTTCTTGGA AGCCCTCAAACCCCTCACACTTTTCCCCTCTTTTTCCAACACCCGCGAACACTTC ACCCTTCCCCAATCCCAAACTCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_020474
Insert Size:	3780 bp
OTI Disclaimer:	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).
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_020474.2 , NP_065207.2
RefSeq Size:	3778 bp
RefSeq ORF:	1680 bp
Locus ID:	2589
UniProt ID:	Q10472
Cytogenetics:	18q12.2
Domains:	RICIN, Glycos_transf_2
Protein Families:	Secreted Protein, Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Gene Summary: This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. GalNAc-Ts initiate mucin-type O-linked glycosylation in the Golgi apparatus by catalyzing the transfer of GalNAc to serine and threonine residues on target proteins. They are characterized by an N-terminal transmembrane domain, a stem region, a luminal catalytic domain containing a GT1 motif and Gal/GalNAc transferase motif, and a C-terminal ricin/lectin-like domain. GalNAc-Ts have different, but overlapping, substrate specificities and patterns of expression. Transcript variants derived from this gene that utilize alternative polyA signals have been described in the literature. [provided by RefSeq, Jul 2008]