

Product datasheet for **SC304459**

GALNT8 (NM_017417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT8 (NM_017417) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNT8
Synonyms:	GALNAC-T8
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_017417 edited
 ATGATGTTTTGGAGGAACTCCCAAGCCCTCTTCATTGGGCTGACTCTGGCCATTGCT
 GTCAATCTCCTTCTGGTATTTTCTAGCAAGGGGACTTTACAAAACCTGTTTACGGGTGGT
 CTCCACAGGGAGCTTCTTTACATCTGAATAAACGCTACGGGGCAGTGATAAAGAGACTC
 TCCCACTTGGAGGTGGAATTGCAGGATCTGAAAGAAAGTATGAAATTAGCTCTGAGGCAA
 CAAGAAAATGTGAACAGCACACTGAAGAGGGCGAAAGATGAAGTACGCCCTCTTCTAAAG
 GCAATGGAAACCAAGGTGAATGAGACAAAGAAGCACAAAACCCAAATGAAACTCTTCCCA
 CACTCACAGCTTTTCAGGCAATGGGGCGAGGATCTTTCTGAGGCCAGCAGAAAGCGGCC
 CAGGACCTCTTCCGGAAGTTTGGTTACAACGCGTACCTCAGCAACCAGCTGCCTCTCAAT
 CGCACCATCCCCGACACGCGAGACTACAGATGTCTTCGGAAGACATATCCTTCCCAACTC
 CCATCCCTCAGTGTCAATTCTCATATTCGTGAATGAAGCTCTGTCCATTATAACAACGGGCC
 ATCACCAGTATCATCAACCGGACGCCCTCTCGATTGTTGAAGGAAATCATCTTGGTGGAT
 GATTTTCAGCTCAAATGGAGAACTAAAGGTACTTGGATGAGAAGATTAAGCTTTACAAC
 CAGAAGTATCCAGGACTACTGAAAATAATACGGCATCCTGAAAGGAAAGGTCTTGCTCAA
 GCCCGCAACTGGCTGGGAAGCTGCCACAGCAGCGTGGTCGCCATCTTGGATGCTCAC
 ATTGAAGTCAATGTTGGGTGGGCAGAGCAATCTTGGCTCGGATTCAGGAGGACCGCACT
 GTGATTGTGTCTCCTGTGTTTGACAACATTCGTTTTGACACCTTCAAACCTGGATAAGTAT
 GAACTGGCAGTTGATGGGTTAACTGGGAACTCTGGTGCCGCTACGATGCACTGCCACAA
 GCCTGGATTGATCTGCATGATGCACTGCCCCAGTGAAGAGTCTTCAATCATGGGCATC
 CTGGCTGCTAACAGGCACTTCTGGGAGAGATCGGGTCTCTGGATGGTGGAAATGCTCATC
 TATGGAGGAGAGAACGTGGAGCTTAGCCTGAGGGTGTGGCAGTGTGGAGGGAAGGTCCGAG
 ATTTTGCCTGTTCCCGGATTGCCACCTAGAGAGACACCACAAGCCCTACGCCTTGGAT
 CTCACCCTGCCTTGAAGCGCAATGCTCTGCGAGTGGCCGAAATCTGGATGGATGAGCAC
 AAACACATGGTCTACTTGGCCTGGAACATACCTCTCCAGAACTCTGGAATAGATTTTGGGA
 GACGTTTTCTCCAGAATGGCACTCCGGGAAAACTGAAATGTAATACTTTTACTGGTAC
 CTGAAAAATGTTTATCCACTCTTGAAGCCACTCCACACCATCGTGGGCTATGGAAGAATG
 AAAAACCTATTGGATGAAAATGTCTGCTTGGATCAGGGACCCGTTCCAGGCAACACCCCC
 ATCATGTATTACTGCCATGAATTCAGCTCACAGAATGTCTACTATCACCTAACTGGGGAG
 CTCTATGTGGGACAACCTGATTGCAGAGGCCAGTGTAGTATCGCTGCCTGACAGACCT
 GGCAAGGGCGAGAAGCCACCTTAGAACCATGCTCCAAGGCAGCTAAGAATAGACTGCAT
 ATATATTGGGATTTTAAACCGGGAGGAGCTGTCATAAACAGAGATACCAAGCGGTGTCTG
 GAGATGAAGAAGGATCTTTTGGGTAGCCACGTGCTTGTGCTCCAGACCTGTAGCACGCAA
 GTGTGGGAAATCCAGCACACTGTGAGAGACTGGGGTCAGACCAACAGCCAGTGA

Restriction Sites: Please inquire

ACCN: NM_017417

Insert Size: 1900 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).

OTI Annotation: 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.

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:

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_017417.1](#), [NP_059113.1](#)

RefSeq Size: 2135 bp

RefSeq ORF: 1914 bp

Locus ID: 26290

UniProt ID: [Q9NY28](#)

Cytogenetics: 12p13.32

Protein Families: 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. [provided by RefSeq, Jul 2008]