

Product datasheet for **SC314958**

GALNT5 (NM_014568) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GALNT5 (NM_014568) Human Untagged Clone
Tag: Tag Free
Symbol: GALNT5
Synonyms: GALNAC-T5; GALNACT5
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_014568 edited
 ACAAGACAAGTGATATGTTGAACCTGTTCCGGTGGCTGGAATCAACTGCTCCTGGAGTGACC
 TAAGGCCAGTGTTTATCAGAACTTAGCCAGGGCCAGCCAAGCAGGCACAGATGCTCTGCT
 ATGAAATGCCACGCAGGCAGAGACTGACAAGCGGTAGGAACTGAGCTTTCCCTTGACT
 GCTGCTTCTGCTGTGTTTCAGGGGAGGGGGTCACTTTCTGGCAACTCTGCTGCTGCTGCT
 GCTGCTGCTGCTACTTCAGTTCCTCTCCACTCAAGGTAAGCAGGCTAAGGGAGGGCAGG
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 AGTCTTGGCATTATCTTTGTAGCTTCTGTCATCTGGCTCCTCTTTGACATGGCAGCTCT
 CCGCTCTCATTAGTGAAGTCAACACTCGGGTCAAGGAAGACATTGTGAGGAGGGA
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GTGAG
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_014568 unedited
CGCGAATTCGGCACACCAGGACAAGACAAGTGATATGTTGAACTGTTTCGGTGGCTGGAATCA
ACTGCTCCTGGAGTGACCTAAGGCCAGTGTATCAGAACTTAGCCAGGGCCAGCCAAGC
AGGCACAGATGCTCTGCTATGAAATGCCACGCAGGCAGAGACTGACAAGCGGTAGGAACT
GAGCTTCCCCTTGGACTGCTGCTTCTGCTGTGTTTCAGGGGAGGGGGTCACTTCTGGC
AACTCTGCTGCTGCTGCTGCTGCTGCTACTTCAGCTTCTCTCCACTCAAGGTAAGC
AGGCTAAGGGAGGGCAGGCTGCTAGGAAAGCTTTGTACCATGAACAGGATCCGAAAGTT
TTTCCGAGGAAGTGGGCGAGTCTTGGCATTATCTTTGTAGCTTCTGTATCTGGCTCCT
CTTTGACATGGCAGCTCTCCGCCTCTCATTCAAGTGAAGTCAACACTCGGGTCATCAAGGA
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CANAGAGAATGTTAGAAAAACTGAGGAGAGTGTGCTCAAGGTTGAGGTGGACTTGGACCA
NACCCAGAGGGAAAGAAAATGCANAATGCCCTGNGAAGGGGGCAGGTTGTGCCGTTGTGG
CATCCTGCACATCTGCAGACCCT
    
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Restriction Sites:	Please inquire
ACCN:	NM_014568
Insert Size:	3800 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:	<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:	<u>NM_014568.1</u> , <u>NP_055383.1</u>
RefSeq Size:	3131 bp
RefSeq ORF:	2823 bp
Locus ID:	11227
UniProt ID:	<u>Q7Z7M9</u>
Cytogenetics:	2q24.1
Protein Families:	Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Gene Summary: The protein encoded by this gene is a membrane-bound polypeptide N-acetylgalactosaminyltransferase that is found in the Golgi. The encoded protein catalyzes the first step in the mucin-type O-glycosylation of Golgi proteins, transferring an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. [provided by RefSeq, Aug 2016]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.