

Product datasheet for **SC321908**

GALNT6 (NM_007210) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT6 (NM_007210) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNT6
Synonyms:	GALNAC-T6; GalNAcT6
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_007210.3
 CCACGCGTCCGGTCCCTCCTGCCTTCGCTCTCTGCTGGTCCGGTGGCCTGTAGCTCCTC
 CCTCGGTAGGACCCCTCCACCTTGGCGCTTACGAGATGAATGAGGAGCCAGACCTCT
 GGAAGTTGGAGGGTTGTTTCAAGTCCCAGGCTGACAAAAAGGAGAAACAGCTTTTACTTG
 CATCCAGGGCCAAATCATCGCAGACCCAGACGCTGCAGAGGGCTGAGGCCAGCTTGTG
 GCCACCACAACGTATCAAGCTATCTCCAGGTTGGGCTCAGGACTCAGAGCTGACGCAGC
 TGGGGTCCCTTGGTTCTGGAGGATGAGGCTCCTCCGACAGCCACATGCCCCGCGC
 CTGGCCATGGTGGGCTGCGCCTTTGTGCTTTCCTCTTCTCCTGCATAGGGATGTGAGC
 AGCAGAGAGGAGGCCACAGAGAAGCCGTGGCTGAAGTCCCTGGTGAAGCCGAAGGATCAC
 GTCCTGGACCTCATGCTGGAGGCCATGAACAACCTTAGAGATTCAATGCCCAAGTCCAA
 ATCAGGGCTCCAGAAGCCAGCAGACTCTGTTCTCATAAACCAGTCTGCCTCCCTGGG
 TTCTATACCCAGCTGAAGTGAAGCCCTTCTGGGAACGGCCACCACAGGACCCCAATGCC
 CCTGGGGCAGATGAAAAGCATTTCAGAAGAGCAAGTGGACCCCTGGAGACCCAGGAA
 AAGGAAGAAGGCTATAAGAAGCACTGTTTCAATGCCTTTGCCAGCAGCCGATCTCCCTG
 CAGAGGTCCTGGGGCCAGACCCGACCCTGAGTGTGTGGACCAGAAGTTCCGGCGC
 TGCCCCCACTGGCCACCACAGCGTGATCATTGTGTTCCACAACGAAGCCTGGTCCACA
 CTGCTGCGAACAGTGTACAGCGTCTACACACCACCCCTGCCATCTTGCTCAAGGAGATC
 ATACTGGTGGATGATGCCAGCACAGAGGAGCACCTAAAGGAGAAGCTGGAGCAGTACGTG
 AAGCAGCTGCAGGTGGTGAAGGTGGTGCAGGAGGAGCGGAAGGGGCTGATCACCGCC
 CGGCTGCTGGGGCCAGCGTGGCACAGGCGGAGGTGCTCACGTTCTGGATGCCACTGT
 GAGTGTCTCCACGGCTGGCTGGAGCCCTCCTGGCTCGAATCGCTGAGGACAAGACAGTG
 GTGGTGAAGCCAGACATCGTACCATCGACCTTAATACTTTTGAAGTTCGCAAGCCCGTC
 CAGAGGGCAGAGTCCATAGCCGAGGCAACTTTGACTGGAGCTGACCTTCGGCTGGGAA
 ACACCTTCTCCACATGAGAAGCAGAGGCGCAAGGATGAAACCTACCCCATCAAATCCCCG
 ACGTTTGTGGTGGCCTTCTCCTCATCTCCAAGTCTACTTTGAGCACATCGGTACCTAT
 GATAATCAGATGGAGATCTGGGAGGGGAGAAGCTGAAAATGTCCTTCCGGGTGTGGCAG
 TGTGGGGCCAGCTGGAGATCATCCCCTGCTGTGCTAGGCCATGTGTTCCGGACCAAG
 AGCCCCACACCTTCCCCAAGGGCACTAGTGTCTTGGCTCGCAATCAAGTGCCTGGCA
 GAGGTCTGGATGGACAGCTACAAGAAGATTTTCTATAGGAGAAATCTGCAGGCAGCAAAG
 ATGGCCCAAGAGAAATCCTTCGGTGACATTTCCGAAACGACTGCAGCTGAGGGAACAAGT
 CACTGTACAACCTTTTCTGGTACCTGCACAATGTCTACCCAGAGATGTTTGTCTCTGAC
 CTGACGCCACCTTCTATGGTGCCATCAAGAACCTCGGCACCAACCAATGCCTGGATGTG
 GGTGAGAACAAACCGGGGGGAAGCCCTCATCATGTAAGTCTGACCAGGCTTGGCGGC
 AACAGTACTTTGAGTACACAACCTCAGAGGGACCTTCGCCACAACATCGCAAAGCAGCTG
 TGTCTACATGTCAGCAAGGGTGTCTGGGCCTTGGGAGCTGTCACCTTCACTGGCAAGAA
 AGCCAGTCCCCAAGGACGAGGAATGGGAATTGGCCAGGATCAGCTCATCAGGAAGTCA
 GGATCTGGTACCTGCCTGACATCCCAGGACAAAAAGCCAGCCATGGCCCCCTGCAATCCC
 AGTGACCCCATCAGTTGTGGCTCTTTGTCTAGGACCCAGATCATCCCCAGAGAGAGCCC
 CCACAAGCTCCTCAGAAACAGGATTGCTGATGTCTGGGAACCTGATCACCAGCTTCTCT
 GGAGGCCGTAAGATGGATTTCTAAACCACTGGGTGGCAAGGCAGGACCTTCTAATCC
 TTGCAACAACATTGGGCCATTTTCTTTCTTCAACCGATGGAAGAGACCATTAGGACA
 TATATTTAGCCTAGCGTTTTCTGTTCTAGAAATAGAGGCTCCCAAAGTAGGGAAGGCAG
 CTGGGGGAGGGTTCAGGGCAGCAATGCTGAGTTCAAGAAAAGTACTTCAGGCTGGGCACA
 GTGGCTCATGCCTGAAATCCTAGCACTTTGGGAAGACAATGTGGGAGAATGGCTTAGCC
 CAGGAGTTCAAGACCGGCTGAGCAACATAGTGAGGATCCCATCTACGCCCACCTCC
 CCCCAGCAAAAAAAGCTGGGTATGGTGGCTTATGCCTGTAGTCGCAGCTACTCAGAA
 GGCTGAGGTGGGAGGATTGCTTGTCCCGGAGGTTGAAGCTACAGTGAGCCTTGATTGT
 GTCAGTCACTCCAGCCTGGGCAACAGGTAAGACTCTGTCTCAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_007210

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:	NM_007210.3 , NP_009141.2
RefSeq Size:	4520 bp
RefSeq ORF:	1869 bp
Locus ID:	11226
UniProt ID:	Q8NCL4
Cytogenetics:	12q13.13
Domains:	RICIN, Glycos_transf_2
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. The encoded protein is capable of glycosylating fibronectin peptide in vitro and is expressed in a fibroblast cell line, indicating that it may be involved in the synthesis of oncofetal fibronectin. [provided by RefSeq, Jul 2008]