

Product datasheet for **SC112822**

GALNT11 (NM_022087) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT11 (NM_022087) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNT11
Synonyms:	GALNAC-T11; GALNACT11
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 SC112822 sequence for NM_022087 edited (data generated by NextGen Sequencing)

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ATGGGAAGTGTACAGTTCGGTATTTCTGTTATGGGTGCCTTTTTACATCTGCGACCTGG
ACAGTTTTGCTTTTTGTTTATTTCAACTCAGTGAAGTGACTCAGCCACTTAAGAATGTG
CCCGTCAAGGGGTCTGGGCCACGGACCATCTCAAAAAAATTCTATCCCGTTTCACT
CGAGGCCAAGTCGAGTGCTCGAGCCACAGTTCAAAGCAAACAAAATTGACGATGTGATA
GACAGTCGTGTTGAAGATCCAGAAGAAGGCCACTTGAAATTTCTTCTGAATTAGGTATG
ATTTTTAATGAACGCGATCAAGAGTTGAGAGACTTGGGCTATCAGAAACATGCTTTAAT
ATGCTTATCAGTGACCGCTTGGGCTACACAGAGATGTGCCAGACACAAGGAATGCAGCA
TGTAAGAAAAAGTTCTACCCACCTGACCTGCCAGCTGCTAGTGTGTTATCTGTTTCTAT
AATGAAGCGTTTTCTGCCTTGCCTCGGACAGTGCACAGTGCATAGACCGCACGCCAGCA
CACCTGCTTCATGAGATCATCTTGTGGATGATGATAGTGACTTTGATGATTTGAAAGGA
GAACTAGATGAATATGTCAAAAAATACCTCCCTGGAAAAATTAAGTCATAAGAAATACA
AAGCGTGAGGGTTGATTCGAGGGAGAATGATTGGCGGGCCACGCGACAGGAGAAGTC
CTTGTTCTCGGACAGCCACTGTGAAGTGAATGTGATGTGGCTGCAGCCCTTGTGGCC
GCCATCCGTGAGGACCGGCACACCGTGGTGTGCCAGTGATTGACATCATCAGCGCCGAC
ACGCTGGCCTACAGCTCGTCCCCTGTGCTCCGCGGAGGGTTCAACTGGGGACTGCACTTC
AAATGGGATCTTGTCCCCTTTCTGAGCTAGGACGAGCGGAGGGGACCTGCACCAATA
AAGTCACCAACAATGGCTGGAGGTTTTGTTGCCATGAACAGACAGTATTTCCATGAACCT
GGACAGTATGATAGTGGCATGGATATCTGGGGAGGAGAAAAATTTGGAAATATCATTTGCG
ATCTGGATGTGTGGCGTAAGCTCTTCATCATCCCTTGCTCTAGAGTAGGACACATTTTC
CGAAAAAGGCGACCATATGGATCTCCCGAAGGCCAGGACACCATGACACACAACCTTTG
CGGCTGGCACATGTCTGGTTGGATGAATACAAGGAGCAGTATTTTTCTTAAGACCTGAC
CTGAAGACGAAAAGCTATGGCAATATCAGTGAGCGTGTGGAAGTGAAGAAAGTTGGGC
TGTAATCATTTAAATGGTATTTGGATAATGTATACCCAGAGATGCAGATATCTGGGTCC
CACGCCAAACCCCAACAACCCATTTTTGTCAATAGAGGGCCAAAACGACCCAAAGTCCTT
CAACGTGGAAGGCTCTATCACCTCCAGACCAACAATGCCTGGTGGCCAGGGCCGCCCA
AGTCAGAAGGGAGGTCTCGTGGTGTCTAAGGCCTGTGACTACAGTGACCCAAATCAGATC
TGGATCTATAATGAAGAGCATGAATTGGTTTTAAATAGTCTCCTTTGTCTAGATATGTCA
GAGACTCGCTCATCAGACCCGCCACGGCTCATGAAATGCCACGGGTGAGGAGGATCCCAG
CAGTGGACCTTTGGGAAAAACAATCGGCTATACCAGGTGTGGTTGGACAGTGCCTGAGA
GCAGTGGATCCCCTGGGTGAGAAGGGCTCTGTGCCATGGCGATCTGCGATGGCTCCTCT
TCACAGCAGTGGCATTGGAAGTTAA
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Clone variation with respect to NM_022087.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022087 unedited</p> <pre>GTATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGGTACTATCCATACATCTTC TTGTATTTGAATATCCGTTAACTGTACGCATAGTGGTCTACTTGGTGGTTTGGAAAAACA GTGATTCTGTATTTGGTGGATGGTTAAAGTATACTGAAGTGTCTAACATATTTATTCTT CTTTTTAGGAAATTGACAATGGCCCTTCAGCTATGCTAGGTCTATAATGGGAAGTGTCA CAGTTCGGTATTTCTGTTATGGGTGCCTTTTTACATCTGCGACCTGGACAGTTTTGCTTT TTGTTTTTTCAACTTCAGTGAAGTGACTCAGCCACTTAAGAATGTGCCCGTCAAGGGGT CTGGGCCCCACGACCATCTCCAAAAAATTCTATCCCGTTTCACTCGAGGCCCAAGTC GAGTGCTCGAGCCACAGTTCAAAGCAAACAAAATTGACGATGTGATAGACAGTCGTGTTG AAGATCCAGAAGAAGGCCACTTGAAATTCTTCTGAATTAGGTATGATTTTTAATGAAC GCGATCAAGAGTTGAGAGACTTGGGCTATCAGAAACATGCTTTAATATGCTTATCAGTG ACCGCTTNGCTACCACAGAGATGTGCCAGACACAAGGAATGCAGCATGTAAAGAAAAGT TCTACCCACCTGACCTGCCAGCTGCTAGNNGTGTATCTGTTTCTATAATGAAGCGTTTT CTGCCTTGCTTCGGACAGTGCACAGTGCATAGACCGCACCCAGCACACCTGCTNATGAG ATCATNCTGGGATGATGATAGTACTTTGATGATTGGAAGGAGAAGTATGATATGT CAAAATACCTCCCTGAANAATNAAGTCATAGAAATACAAGCGTGAGGGGTTGATTNAGG AGATGATTGGCGCCGCCACCAAGGAAAATTCTGTGCTGNACGCCACTGGAGTGATG GAGN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_022087 unedited</p> <pre>GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATCAAAGGATTCTTTA TTATGTAGATTGTATCATAATTCATCAAATAATTTTATAATTAAGTCCATACTGTCTT ATAAATGATGCCTTCTGAAGTTAAACATAATATAGATTAGTTTTTTAAATGATCTACT TACAACATACTAAACAAATAATAGAAGTTTTTTTTTTTTTTAAAGCACTATCTCCTATGA AGTCTAAGAAAGGAAATCATGACAAGTTCCTGATCAGATAAAAACCCTGCATCATTAAA GGGGATTAAGGAGGCATAAATAAATCTGAATAGAAATATCCATTTTCTGGGTTTTAT CCTTCTGTACAAGCCCAATTCAGAGTTAAATGATACTGTGGTTTGCCTCTATAAGCAA GAAATTCCTTAACAGCAGCTCAAACATCACCTAATGTCCAGGTGAAACATACTCACTTC TTCACCCGTGGACTCACTTCTTCACCCGTGGACTCAAAGCTCCCGTCTCTGTCAGA CACGTGTACCTCTGCTAACACCCAGGCATCTCCGGGAGGACAGGGAAACTGTCATTT TTCTCACAAATGGTTTTCTGCTCCACCCCAACCCAGCTTTCTTAAAGCCCAACCTCCAC ACCGGGAGGGACCCCTGATGAAACACCGTTCCCGCCAAGATTTCACTTTACCTTCCCA AGGCCACTGTTGGGAAAAGAAGCCATTTATATCGCCATGGGAACAAACCCCTCCTGCACA CTGGAACACGGCTTTAAGCACTGTACCGCACCTTGTTTACCATTTGTTTTCACAAAGGC CACTGGTGGGACCCAGACCCTGGCTTACCCTTGCCATCTCAACC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_022087
Insert Size:	2940 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_022087.1 , NP_071370.1
RefSeq Size:	2591 bp
RefSeq ORF:	1827 bp
Locus ID:	63917
UniProt ID:	Q8NCW6
Cytogenetics:	7q36.1
Domains:	RICIN, Glycos_transf_2
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	<p>Polypeptide N-acetylgalactosaminyltransferase that catalyzes the initiation of protein O-linked glycosylation and is involved in left/right asymmetry by mediating O-glycosylation of NOTCH1. O-glycosylation of NOTCH1 promotes activation of NOTCH1, modulating the balance between motile and immotile (sensory) cilia at the left-right organiser (LRO). Polypeptide N-acetylgalactosaminyltransferases catalyze the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Displays the same enzyme activity toward MUC1, MUC4, and EA2 than GALNT1. Not involved in glycosylation of erythropoietin (EPO).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>