

## Product datasheet for **SC120723**

### ST6GALNAC1 (NM\_018414) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC1 (NM_018414) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST6GALNAC1
Synonyms:	HSY11339; SIAT7A; ST6GalNAcI; STYI
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120723 sequence for NM\_018414 edited (data generated by NextGen Sequencing)

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ATGAGGTCCTGCCTGTGGAGATGCAGGCACCTGAGCCAAGGCGTCCAGTGGTCCTTGCTT
CTGGCTGTCTGGTCTTCTTTCTTTCGCTTGGCCTCTTTTATTAAGGAGCCTCAAACA
AAGCCTTCCAGGCATCAACGCACAGAGAACATTAAGAAAGGTCTCTACAGTCCCTGGCA
AAGCCTAAGTCCCAGGCACCCACAAGGGCAAGGAGGACAACCATCTATGCAGAGCCAGTG
CCAGAGAACAATGCCCTCAACACACAAACCCAGCCCAAGGCCACACCACCGGAGACAGA
GGAAAGGAGGCCAACAGGCACCCGCGGAGGAGCAGGACAAGGTGCCCCACACAGCACAG
AGGGCAGCATGGAAGAGCCAGAAAAAGAGAAAACCATGGTGAACACACTGTCAACCAGA
GGGCAAGATGCAGGGATGGCCTCTGGCAGGACAGAGGCACAATCATGGAAGAGCCAGGAC
ACAAAGACGACCAAGGAAATGGGGCCAGACCAGGAAGCTGACGGCCTCCAGGACGGTG
TCAGAGAAGCACCAGGGCAAAGCGGCAACCACAGCCAAGACGCTCATTCCAAAAGTCAG
CACAGAATGCTGGCTCCACAGGAGCAGTGTCAACAAGGACGAGACAGAAAGGAGTGACC
ACAGCAGTCATCCACCTAAGGAGAAGAAACCTCAGGCCACCCACCCCTGCCCTTTC
CAGAGCCCACGACGCAGAGAAACCAAGACTGAAGGCCCAACTTCAAATCTGAGCCT
CGGTGGGATTTTGAAGAAAATACAGCTTCGAAATAGGAGGCCTTCAGACGACTTGCCCT
GACTCTGTGAAGATCAAAGCCTCCAAGTCGCTGTGGCTCCAGAACTCTTCTGCCAAC
CTCACTCTCTTCTGGACTCCAGACACTTCAACCAGAGTGAGTGGGACCGCTGGAACAC
TTTGCACCACCCTTTGGCTTCATGGAGCTCAACTACTCCTTGGTGCAGAAGGTCGTGACA
CGCTTCCCTCCAGTGCCCGAGCAGCAGCTGCTCCTGGCCAGCCTCCCGCTGGGAGCCTC
CGGTGCATCACCTGTGCCGTGGTGGGCAACGGGGGCATCCTGAACAACTCCACATGGGC
CAGGAGATAGACAGTCACGACTACGTGTTCCGATTGAGCGGAGCTCTCATTAAAGGCTAC
GAACAGGATGTGGGGACTCGGACATCCTTCTACGGCTTTACCGCTTCTCCCTGACCCAG
TCACTCCTTATATTGGGCAATCGGGTTTCAAGAACGTGCCTCTTGGGAAGGACGTCCGC
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CAGACGGTGATGTCAAAAAACCTTTTCTGGTTCAGGCACAGACCCAGGAAGCTTTTCGG
GAAGCCCTGCACATGGACAGGTACCTGTTGCTGCACCCAGACTTCTCCGATACATGAAG
AACAGGTTTCTGAGGTCTAAGACCCTGGATGGTGCCCACTGGAGGATATACCGCCCCACC
ACTGGGGCCCTCCTGCTGCTCACTGCCCTTCAGCTCTGTGACCAGGTGAGTGCTTATGGC
TTCATCACTGAGGGCCATGAGCGCTTTTCTGATCACTACTATGATACATCATGGAAGCGG
CTGATCTTTTACATAAACCATGACTTCAAGCTGGAGAGAGAAGTCTGGAAGCGGCTACAC
GATGAAGGGATAATCCGGCTGTACCAGCGTCTGGTCCCAGCACTGCCAAAGCCAAGAAC
TGA
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Clone variation with respect to NM\_018414.3

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_018414 unedited</p> <pre>NNGGTTCCGGATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACCAGTGAAGGCG GTTCTCCCTTCCCAGGCAGAGACTGATAAACTCAGCACTTGCCGGAGTGGCTCATTGTT AAGACAAAGGGTGTGCACTTCCCAGGCCAGGAACTGAGCGGTGAGACTCCCAGCTGCCT ACATCAAGGCCCCAGGACATGCAGAACCTTCTCTAGAACCCGACCCACCACCATGAGGT CCTGCCTGTGGAGATGCAGGCACCTGAGCCAAGGCGTCCAGTGGTCTTGCTTCTGGCTG TCCTGGTCTTCTTCTCTTCGCCTTGCCCTCTTTTATTAAGGAGCCTCAAACAAAGCCTT CCAGGCATCAACGCACAGAGAACATTAAGAAAGGTCTCTACAGTCCCTGGCAAAGCCTA AGTCCCAGGCACCCACAAGGCAAGGAGACAACCATCTATGCAGAGCCAGTGCCAGAGA ACAATGCCCTCAACACACAAACCCAGCCCAAGGCCACACCACCGGAGACAGAGGAAAGG AGGCCAACAGGCACCGCCGGAGGAGCAGGACAAGGTGCCCCACACAGCAGAGGGCAG CATGGAAGAGCCCAGAAAAGAGAAAACCATGGTGAACACACTGTACCCAGAGGGCAAG ATGCAGGNATGGCCTCTGGCAGGACAGAGGCACAATCATGGAAGAGCCAGGACACAAAGA CGACCCAAGGAAATGGGGCCAGACCAGGAAGCTGACGGCCTCCAGGACGGTGTGAGAGA AGCACCAGGGCAAAGCGGNCACCACAGCCAAGACGCTCATTCCNCAAAGTCAGCACAGAA TGCTGGGCTCCACAGGAGCAGTGTNCACAAGGACGAGACAGAAAGGAGTGACCACAGCAG TCATCCCACCTAAGGAAAGAA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_018414 unedited</p> <pre>ATTTTAGCTTGGACCGCGCCGCAATCTANATNCNGCTTTTTTTTTTTTTTTTTTTTTTTT TACCTGAAAAAATTATTTGCCTTTCATGGACAACAATCATTTGTATTATTATCAGTTT TCTACAACACGTAGAGTTGTCAAATAGCTTAAAGACAAGGACAAGTATAGACCCTTCTAG AATCAGATAACTCCTAGAAAGGCCCTTCTAGACAATTTGTAGGGAAGTTAAGTAATACCTT CAAGACTTCCCAACTGCAAACTCGATCTGGAATCCAACCCAGATCTATATGTTTGTGGGA ACTCCAGGCTCTTTCTCTCGCCATCACCACCTTCCGCCCCGCAACATTGCCCCCACTCG CCCTTCGGTCTCGGGCCTTGCCACCGTCTTCTTCCACCCTCTGCCTCTCCGACC CCCCGTTTCCCTTGCTCCATCCCCGCCCCCCCCCGCCTTCCCATTCCATTTCCCCC TTTCCCTTCTCCCTCCTTTCTCTCTCTTCCCCCTCCACACCTACCCTCCCACCCCTC CCCTAACACTCCTCCCCCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT CTTCCCCCTCTTGGCCCCCTCCCCCCCCCTTCTCTCACCTCCCCCTTTTCCCTT CTCGCCTCCCCTACTACCACTTCCACCTCTCTACCTTCTCTCCCCCTTCCCCCTTCTTG GTTCCACGTCTCCCTCTTCTTACCCGCTCCCCACACCTCGCTCTAATTCCTAAC ATACCCCTACATTACACAATTTTACCCCTCCCCCCCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018414
<b>Insert Size:</b>	2660 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018414.2</a> , <a href="#">NP_060884.1</a>
<b>RefSeq Size:</b>	2437 bp
<b>RefSeq ORF:</b>	1803 bp
<b>Locus ID:</b>	55808
<b>UniProt ID:</b>	<a href="#">Q9NSC7</a>
<b>Cytogenetics:</b>	17q25.1
<b>Domains:</b>	Glyco_transf_29
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, O-Glycan biosynthesis
<b>Gene Summary:</b>	<p>Glycosylation of proteins affects cell-cell interaction, interactions with the matrix, and the functions of intracellular molecules. ST6GALNAC1 transfers a sialic acid, N-acetylneuraminic acid (NeuAc), in an alpha-2,6 linkage to O-linked GalNAc residues. The cancer-associated sialyl-Tn (sTn) antigen is formed by ST6GALNAC1-catalyzed sialylation of GalNAc residues on mucins (Ikehara et al., 1999 [PubMed 10536037]; Sewell et al., 2006 [PubMed 16319059]). [supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>