

Product datasheet for **SC111906**

ST6GALNAC2 (NM_006456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC2 (NM_006456) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST6GALNAC2
Synonyms:	SAITL1; SIAT7; SIAT7B; SIATL1; ST6GalNAII; STHM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111906 sequence for NM_006456 edited (data generated by NextGen Sequencing) <pre> ATGGGGCTCCCGCGGGTCTGTTCTTCTGGCTGCTGCTCTGCTCAGGCTGCCTGCTCG GGGCTCCTCTTTGCCCTGTACTTCTCGGCGGTGCAGCGGTACCCGGGGCCAGCGCCGGA GCCAGGGACACCACATCATTTGAAGCATTCTTTCAATCCAAGGCATCGAATTCTTGGACA GGAAAGGGCCAGGCTGCCGACACCTGCTTACCTGGCCATTAGCGGCACCCCCACTTC CGTGGCCTGTTCAATCTCTCCATTCCAGTGTGCTGTGGGGGGACCTCTTCACCCAGCG CTCTGGGACCGCCTGAGCCAACACAAAGCCCCGTATGGCTGGCGGGGGCTCTCTACCAA GTCATCGCCTCCACCCTGAGCCTTCTGAACGGCTCAGAGAGTGCCAAGCTGTTTGCCCCG CCCAGGGACACCCTCCAAAGTGTATCCGGTGTCCGTGGTGGGCAACGGAGGCATTCTG AATGGGTCCCGCCAGGGTCCCAACATCGATGCCATGACTATGTATTGAGCTCAATGGA GCTGTGATCAAAGCTTCGAGCGCGATGTGGGCACCAAGACTTCCTTCTATGGTTTCACT GTGAACACGATGAAGAACTCCCTCGTCTCCTACTGGAATCTGGGCTTCACTCCGTGCCA CAAGGACAGGACCTGCAGTATATCTTATCCCCTCAGACATCCGCGACTATGTGATGCTG AGATCGGCCATTCTGGGCGTGCCTGTCCCTGAGGGCCTAGATAAAGGGGACAGGCCGCAC GCCTATTTTGGACCAGAGCCTCTGCCAGTAAATTCAAGCTGCTACATCCGGACTTCATC AGCTACCTGACAGAAAGTTCTTGAAATCAAAGTTGATTAACACACATTTTGGAGACCTA TATATGCCTAGTACCGGGGCTCTCATGCTGCTGACAGCTTTGCATACCTGTGACCAGGTC AGTGCCTATGGATTCATCACAAGCAACTACTGGAATTTTCCGACCACTATTTTGAACGA AAAATGAAGCCATTGATATTTTATGCAAACACGATCTGCTCCCTGGAAGCTGCCCTGTGG AGGGACCTGCACAAGCCGGCATCCTTCAGCTGTACCAGCGCTGA </pre>

Clone variation with respect to NM_006456.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006456 unedited
 TAGGAATTTGTNAATACCGACTTACTATAGGGCGGCCGCTTCTGCCTGGGACGTACAGCG
 GACCGGGCGCTCGCGGGCCGGGGCTGTATGGGGCTCCCGCGCGGGTCTTCTTCTGGCTG
 CTGCTCCTGCTCACGGCTGCCTGCTCGGGGCTCCTCTTTGCCCTGTAATCTCTCGGCGGTG
 CAGCGGTACCCGGGGCCAGCGGGCCGAGCCAGGACACCATCATTTGAAGCATTCTTT
 CAATCCAAGGCATCGAATTCTTGGACAGGAAAGGGCCAGGCCTGCCGACACCTGCTTCAC
 CTGGCCATTACAGCGCACCCCACTTCCGTGGCTGTTCAATCTCTCCATTCCAGTGCTG
 CTGTGGGGGACCTCTTACCCAGCGCTCTGGGACCGCTGAGCCAACACAAAGCCCCG
 TATGGCTGGCGGGGCTCTCTACCAAGTCATCGCTCCACCCTGAGCCTTCTGAACGGC
 TCAGAGAGTGCCAAGCTGTTTGGCCCGCCAGGGACACCCCTCCAAAGTGATCCGGTGT
 GCCGTGGTGGGCAACGGAGGCATTCTGAATGGTCCCGCCAGGGTCCCAACATCGATGCC
 CATGACTATGTATTCAGACTCAATGGAGCTGTGATCAAAGGCTTCGAGCGCGATGTGGG
 ACCAAGACTTCCTTCTATGTTTCACTGTGAACACGATGAAGAACTCCCTCGTCTCTAC
 TGAATCTGGGCTTCACCTCCGTGCCACAAGGACAGAAAAATCCTGTGCATGAGTCGCTA
 AGTCCAGCCCATACTCCAGGGGATGGCAATTGGGTGCCACCTNCTGAANGGAGCATANAG
 GATNTGTGGACCTACACTGAAACAGTACAGCACCTCTGGGNTGAAATGAAAGGACCTG
 CAGTATATCTTCATTCCCTCAGACATNCGCGACTATGTGATGCTGAGATCGGCATTCTGG
 GCGTGCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006456 unedited
 GAACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTATGAGGA
 TGAAGGTTTATTACCTGGTGACATCATCTGTTGGTGACAAGGTGGTGATACATCTTAA
 TGGGACTTCAGGCAGGCTGCCAAGCACTAACCCCATCAAGTGCCAGACCTCCAGTG
 TTCTGAGAGTCATCTCCATGCTAAACAGCTGCGTTTTATATGATTTCTTACCCAGCCA
 AAAAAAAAAAATGGTCCATCATGTACGAGTTATCTAGTCTTAAGTTATATTCTGGCT
 TTTTCTCCCACTTTATTATGGAGCAGAAGTAAGCCTATCATGTTCTTAAAAAGGCTCTT
 AAGAGGTGTCTGGAGTCCTTGAATCACTTTAGCATCTGGGGTAGGATGTGCCACCAGGA
 GGATTTGGGCTGGAGCGTGTGTGTTTGCCTTTGACCTGGACTGCTGTCTGATCTTGCTGA
 ACACTCCACCGACATTTCTAAAGTTGCTCAGTGCCATCCAGCAAAGCAGTCCATTTTC
 CCTTGGCCAAGATTGAGATGATTGTTTATGATACAGAAGAGTTCTTGGATGAGCCAAGG
 ACAAGCTGGGGTGTCTATATTGAACAGACCTCGATGAAAATCTTGAATTCACCCAGTG
 CCTCTGTTGGCAAGGGAAGGTGAAGATTGAAAAGTAAAAAGCTTTTGGCCACTTGAGA
 GGATCAGGGCCGCAACTCTTGAAGAGCAAAGGGCTCAGTGCAATTGGGGTCAGCGCTGGTC
 CAGCTGAGGATGCCGCCTTGTGCACTCCCTTCACAGGCAGTTCCAGGGAAGATCGGGTTT
 GATAAAAATCATGGTTCAATTTTCGTCGAATAGTCCGGAATTCGTTGTTGGAGAT
 CCTAGCCCTGCCTGTCCAGTATGCAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_006456

Insert Size:

2260 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:	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_006456.1, NP_006447.1</u>
RefSeq Size:	1908 bp
RefSeq ORF:	1125 bp
Locus ID:	10610
UniProt ID:	<u>Q9UJ37</u>
Cytogenetics:	17q25.1
Domains:	Glyco_transf_29
Protein Families:	Transmembrane
Gene Summary:	ST6GALNAC2 belongs to a family of sialyltransferases that add sialic acids to the nonreducing ends of glycoconjugates. At the cell surface, these modifications have roles in cell-cell and cell-substrate interactions, bacterial adhesion, and protein targeting (Samyn-Petit et al., 2000 [PubMed 10742600]).[supplied by OMIM, Mar 2008]