

## Product datasheet for SC118260

### SIAT4A (ST3GAL1) (NM\_003033) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SIAT4A (ST3GAL1) (NM_003033) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIAT4A
Synonyms:	1; Gal-NAc6S; SIAT4A; SIATFL; ST3GalA; ST3GalA.1; ST3GalIA; ST3O
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118260 sequence for NM_003033 edited (data generated by NextGen Sequencing)

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ATGGTGACCCTGCGGAAGAGGACCCTGAAAGTGCTCACCTTCCTCGTGCTTTCATCTTC
CTCACCTCCTTCTCCTGAACTACTCCCACACCATGGTGCCACCACCTGGTTCCCAAG
CAGATGGTCTCGGAGCTCTCCGAGAACCCTGAAGAGACTGATCAAGCACAGGCCTGCACC
TGCACCCACTGCATCGGGCAGCGCAAGCTCTCGGCCTGGTTTCGATGAGAGGTTCAACCAG
ACCATGCAGCCGCTGCTGACTGCCCAGAACGCGCTCTTGGAGGACGACACCTACCGATGG
TGGCTGAGGCTCCAGCGGGAGAAGAAGCCCAATAAATTGAATGACACCATCAAGGAGCTG
TTCAGAGTGGTGCCTGGGAATGTGGACCCTATGCTGGAGAAGAGGTCGGTGGGCTGCCGG
CGCTGCGCGGTTGTGGGCAACTCGGGCAACCTGAGGGAGTCTTCTTATGGCCTGAGATA
GACAGTACGACTTTGTCCTCAGGATGAACAAGGCGCCACGGCAGGTTTGAAGCTGAT
GTTGGGACCAAGACCACCCACCATCTGGTGTACCCTGAGAGCTTCCGGGAGCTGGGAGAT
AATGTCTAGCATGATCCTGGTGCCCTTCAAGACCATCGACTTGGAGTGGGTGGTGAGCGCC
ATCACCACGGGCACCATTTCCCACACCTACATCCCGGTTCTGCAAAGATCAGAGTGAAA
CAGGATAAGATCCTGATCTACCACCCAGCCTTCATCAAGTATGTCTTTGACAACCTGGCTG
CAAGGGCAGGGCGATACCCATCTACCGGCATCCTCTCGGTCATCTTCTCAATGCATGTC
TGCGATGAGATGGACTTGTACGGCTTCGGGGCAGACAGCAAAGGGAACTGGCACCCTAC
TGGGAGAAACAACCCATCCGCGGGGGCTTTTCGCAAGACGGGGTGCACGATGCAGACTTT
GAGTCTAACGTGACGGCCACCTTGGCCTCCATCAATAAAAATCCGGATCTTCAAGGGGAGA
TGA

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Clone variation with respect to NM\_003033.3  
261 c=>t;850 g=>a



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_003033 unedited            NTTACCGTTCCGTATTGTATACGACTCATATAGCGGCCGCGNAATTCGCACGAGGCGGA            GGGAGGAGGAGGAGGAAGAAGAGCGGAGAGAGAAGGAAGAGGCGATGTGAGCTGGGAAGG            GGGCAAGTGTCCGGGACACCCACACCCCTGTATTCTCCTCCGAACCCCTTCATGCCCAA            TCCCGAAACTCCAGCGTGTCTCCAGCCGTGTTGGTACCATTTTCAGATTCATCTTCT            AAAGTGGAAATGTCAATGAGAGGAAATTAACACCCCAAGAGCTGCAGTGAGCAAATGCA            TTGAGCTTGGTCAGGACAATTCATTTGGGGACCAGAGATGGACGGTCACTCAGCCTAT            GGAGATGAAGAAACTGAGGTTCCAGAGAGGTTAAGAGACTCCACTGAGGTCACACGCCGA            TGACAGACAACCTTCTGTGCCTTCATCAAGCTGTTGTGTACCCACCATGTCCTGGCGA            CAGGATGGGAAAGAAAAGCCCTAATTAAGGATCGTCAGAAACCACAGTTGGAGGAGGAC            GGCAGAGACAGTTTCCCTCCCGCTATACCAACACCCCTCCTTCGAGGTCCTCGCTCCTG            AGGGACCTGGACTGTCACAGAGATTAATGACCCCTTATCTTCTTTGGATGTGAAAGGAA            ATCACTGGTTAAAGCTTGATCGAGAGACATTATCAGCTCTTTAAGGATTGCAGGAGAATA            GGCTACTTTATTTCTGAAAAGGAGGAGTTCTGCTACCCATCGTGGGAGGCCACCATCA            GGACTGCGAAGATGGTGACCCTGCGGAAGAGACCCTGAAGTGCTCACTTCTCGTGCTCT            TCATCTTCTCACTCCTTCTTCTGACTACTCCACACCTGA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003033 unedited            GCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTCAAAGACAGGGTCTCACTCTGTTGCC            CAGGCTGGAGTGCAGTGGTGTGATCACAGCCACTGCAGCCTCGAACTCCTAGGCACAAG            AGATCCTCCCTCCTCAGCCTCCCTAGTAGCTGGGGCTACAAGTGTGTGCCACCGTGCCTG            GCTAATTTTTTAAATCTTTATTTTTGTAGAGACAGGAGTCTCACTATGTTGCCAGGC            TGGTCTTGAACCTCTGGGCTCAAGTGATCCTCCCGCCTCGGCCTCCCAAAGTGTTGAGAT            TACAGGTGTGAGCCACGGCACCTGGCCTCAAGTTCTGAGAAAATCTTTGGGGTAGGAGC            CTCTGGTGGCTCATAAATGAGCCTTGGGAAAATGACAGGGTTATCACGCCAAGCAAGAGG            CCAGCCTTCTGCAAAGAAGGGCAGCATCTCGCCCGAGCGCCAACACCGCCTGACACGT            TTCTGTGCTGGAGGTAATCCCCCTCAAGTCTCTGCCATCCTTCCGGGAAACCGCACTG            ACTCTAAAACATACGGCATCTTACACATTATTATCACCAAGCTGGCCCAATATTCCAAA            AATGTTTCTCACCGGCGCGAGGCTATACTTTCTCCCACTTTACCTTCACTTCGTAAT            AACTGGGTGGTCCCCCCCCACCCCACTCCGCATACCTAACTATTACTTCCACCCAA            CTAGGCACATCTATCTATACTTCTTGTCAACCCCTCCTCACATGCCTATCTATCCCTC            ATTCCATTTTTCTCACTCTTCCGACACCCATAAGCAATCTCTATTTTTCTTCTATCTCT            GTTTGCTCTTTCTCGCCCTCTTTCTCCCCCTCCCCCCTACTCCCCACCGACCTA            TGTCTGTTTCATCTTCTCTATACCCATCTGTATTCACTTCTTAGTCATCATCACCCCC            CCCCCCCTCCTCCCCCCCCCGCTTCCATCTTTTATTCTTCATTTTCAACCTCTTC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003033
<b>Insert Size:</b>	2930 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).

**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:** [NM\\_003033.2](#), [NP\\_003024.1](#)

**RefSeq Size:** 2911 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 6482

**UniProt ID:** [Q11201](#)

**Cytogenetics:** 8q24.22

**Domains:** Glyco\_transf\_29

**Protein Families:** Secreted Protein, Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Keratan sulfate biosynthesis, Metabolic pathways, O-Glycan biosynthesis

**Gene Summary:** The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi but can be proteolytically processed to a soluble form. Correct glycosylation of the encoded protein may be critical to its sialyltransferase activity. This protein, which is a member of glycosyltransferase family 29, can use the same acceptor substrates as does sialyltransferase 4B. Two transcript variants encoding the same protein have been found for this gene. Other transcript variants may exist, but have not been fully characterized yet. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.