

Product datasheet for **SC111017**

SIAT4A (ST3GAL1) (NM_173344) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIAT4A (ST3GAL1) (NM_173344) 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:	>NCBI ORF sequence for NM_173344, the custom clone sequence may differ by one or more nucleotides

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ATGGTGACCCTGCGGAAGAGGACCCTGAAAGTGCTCACCTTCCTCGTGCTCTTCATCTTCCTCACCTCCT
TCTTCCTGAACTACTCCCACACCATGGTGGCCACCACCTGGTTCCCAAGCAGATGGTCCTGGAGCTCTC
CGAGAACCTGAAGAGACTGATCAAGCACAGGCCTTGCACCTGCACCCACTGCATCGGGCAGCGCAAGCTC
TCGGCCTGGTTCGATGAGAGGTTCAACCAGACCATGCAGCCGCTGCTGACCGCCAGAACGCGCTTTGG
AGGACGACACCTACCGATGGTGGCTGAGGCTCCAGCGGGAGAAGAAGCCCAATAACTTGAATGACACCAT
CAAGGAGCTGTTGAGAGTGGTGCCTGGGAATGTGGACCCTATGCTGGAGAAGAGGTGGTGGGCTGCCGG
CGCTGCGCGGTTGTGGGCAACTCGGGCAACCTGAGGGAGTCTTCTATGGCCTGAGATAGACAGTCACG
ACTTTGTCTCAGGATGAACAAGGCGCCACGGCAGGGTTTGAAGCTGATGTTGGGACCAAGACCACCCA
CCATCTGGTGTACCCTGAGAGCTTCCGGGAGCTGGGAGATAATGTGAGCATGATCCTGGTGCCTTCAAG
ACCATCGACTTGGAGTGGGTGGTGGAGCGCCATCACCACGGGCACCATTTCCACACCTACATCCCGGTTT
CTGCAAAGATCAGAGTGAAACAGGATAAGATCCTGATCTACCACCCAGCCTTCAAGTATGCTTTGA
CAACTGGCTGCAAGGCACGGGCGATACCATCTACCGGCATCCTCTCGGTGATCTTCTCAATGCATGTC
TGCGATGAGGTGGACTTGTACGGCTTCGGGGCAGACAGCAAAGGGAAGTGGCACCCTACTGGGAGAACA
ACCCATCCGCGGGGGCTTTTCGCAAGACGGGGTGCACGATGCAGACTTTGAGTCAACGTGACGGCCAC
CTTGGCCTCCATCAATAAAATCCGGATCTTCAAGGGGAGATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_173344 unedited TTTGTAATACGACTTATTATAGGGCGGCCGAATTCGGCACGAGGCAAAGACAAAGAGC CCTAGACCGGAGGGAGGAGGAGGAAGAAGAGCGGAGAGAGAAGGAAGAGGCGATGTG AGCTGGGAAGGGGCAAGTGTCCGGGACACCCACACCCCTGTATTCTCTCCGAACCCCT TCATGCCCAAATCCCGGAAACTCCAGCGTGTCTCCAGCCGTGTTGGTACCATTTTCAGAT TTCATCTTCTAACTGAAAATGTCAATGAGAGGAAATTAACACCCCAAGAGCTGCAGT GAGCAAATGCATTGAGCTTGGGTCAGGACAATTCATTTGGGGACCAGAGATGGACGGTC ACTCAGCCTATGGAGATGAAGAACTGAGGTTCCAGAGAGGTTAAGAGACTCCACTGAGGT CACACAGCCGATGACAGACAACCTTCTGTGCCTTCATCAAGCTGGTTGTGTACCCACCAT GTCCCTGGCGACAGGATGGGAAAGAAAAGCCCTAATTAAGGATCGTCAGAAACCACAGT TGGAGGAGGACGGCAGAGACAGTTTCCCTCCCCGCTATACCAACACCCCTCCTTCGAGGT CCTCGCTCCTGAGGGACCCTGGACTGTCACAGAGATTAATGACCCCTTATCTTTTGA TGTGAAAGGAAATCACTGGTTAAAGCTTGATCGAGAGACATTATCAGCTCTTTAAGGATT GCAGGAGAATAGGCTACTTTATTTCTGAAAGGNAGGGAGTTCTGCTACCCATCGTGGG AGGCCACCCATCAGACTCGGAAGATGGTGACCCTGCCGGAAGAGGACCCTGNAAGTGCTC ACCTTCTCGNGCTCTTATCTTCTCACCTCCTTTCTTCTNCTGACTACTCCACACCATG GTGGCCACCACCTGGTTCCCAAC
Restriction Sites:	NotI-NotI
ACCN:	NM_173344
Insert Size:	2800 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_173344.1 , NP_775479.1
RefSeq Size:	2708 bp
RefSeq ORF:	1023 bp
Locus ID:	6482
UniProt ID:	Q11201
Cytogenetics:	8q24.22
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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.