

Product datasheet for **SC322526**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322526
 GGACACCCACACCCTGTATTCTCTCCGAACCCCTTCATGCCCAAATCCCGGAACTCC
 AGCGTGTCTCCAGCCGTGTTGGTACCATTTTCAGATTTTCATCTTCTAACTGGAATGT
 CAATGAGAGGAAATTAACACCCCAAGAGCTGCAGTGAGCAAATGCATTGAGCTTGGGTC
 AGGACAATTCCATTTGGGGACCAGAGATGGACGGTCACTCAGCCTATGGAGATGAAGAAA
 CTGAGGTTCCAGAGAGTTAAGAGACTCCACTGAGGTACACAGCCGATGACAGACAACCT
 TCTGTGCCTTCAAGCTGGTTGTGTACCCACCATGTCCTGGCGACAGGATGGGAAAG
 AAAAAGCCCTAATTAAGGATCGTCAGAAAACACAGTTGGAGGAGGACGGCAGAGACAGTT
 TCCTCCCGCTATACCAACACCCTTCTTCGAGGTCCTCGCTCCTGAGGGACCTTGGAC
 TGTACAGAGATTAATGACCCTTATCTTCTTTGGATGTGAAAGGAAATCACTGGTTAA
 GCTTGATCGAGAGACATTATCAGCTCTTTAAGGATTGCAGGAGAAATAGGCTACTTTATTT
 TCTGAAAAGGAGGGAGTTCTGTACCCATCGTGGGAGGCCACCATCAGGACTGCGAAGA
 TGGTGACCCTGCGGAAGAGGACCCTGAAAGTGTACCTTCTCGTGCTTTCATCTTCC
 TCACCTCTTCTTCTGAACTACTCCACACCATGGTGGCCACCCTGGTTCCCAAGC
 AGATGGTCTGGAGCTCTCCGAGAACCTGAAGAGACTGATCAAGCACAGGCTTGCACCT
 GCACCCACTGCATCGGGCAGCGCAAGCTCTCGGCTGGTTCGATGAGAGGTTCAACCAGA
 CCATGCAGCCGCTGCTGACTGCCAGAACGCGCTCTTGGAGGACGACACCTACCGATGGT
 GGCTGAGGCTCCAGCGGGAAGAAGCCCAATAACTTGAATGACACCATCAAGGAGCTGT
 TCAGAGTGGTGCCTGGGAATGTGGACCCTATGTGGAGAAGAGGTCGGTGGGCTGCCGGC
 GCTGCGCCGTTGTGGGCAACTCGGGCAACCTGAGGGAGTCTTCTTATGGGCTGAGATAG
 ACAGTCACGACTTTGTCTCAGGATGAACAAGGCGCCACGGCAGGGTTTGAAGCTGATG
 TTGGGACAAGACCACCCACCCTGTTGGTGTACCTGAGAGCTTCCGGGAGCTGGGAGATA
 ATGTCAGCATGATCTTGGTGCCTTCAAGACCATCGACTTGGAGTGGTGGTGGGAGCGCA
 TACCACGGGCACCATTTCCACACCTACATCCCGTTCCCTGCAAGATCAGAGTGAAAC
 AGGATAAGATCCTGATCTACCACCCAGCCTTCATCAAGTATGTCTTTGACAACTGGCTGC
 AAGGGCACGGGCGATACCCATCTACCGGCATCCTCTCGGTGATCTTCTCAATGCATGTCT
 GCGATGAGGTGGACTTGTACGGCTTCGGGGCAGACAGCAAAGGAACTGGCACCCTACT
 GGGAGAACAACCCATCCGCGGGGCTTTTCGCAAGACGGGGTGCACGATGCAGACTTTG
 AGTCTAACGTGACGGCCACCTTGGCCTCCATCAATAAAATCCGGATCTTCAAGGGGAGAT
 GACGCAGTGAAGGGCTGAGGATGGACGCACTGTACACCTTGCATTTCCAGCCCCAGCA
 TCTTGCTGGAGCCGTTCCATCCCGGAGCTTGGAGGGGCAGCCTCAGGTGTGTGCCTGGC
 ACCGCTCACAGCCTTTCACCCAGCCGTTGGCAGCATCTACTCAGCAAGGTCACCTAAGC
 TCTGCCAGCGTGGCAGAGCATGTCTTGGAACTGTCTTGTAGTGGGGACAACGTCACCCCA
 CTGCTGCCCTAGAGCTGGGGAGACGCTGGGAAAGGTTCAACCTCCACACTAAAATCAT
 TTTGGCTCCTGGGGCAAGCTTGGGGAATGAATGTGGAAGATGCCTATATTCTGAGAGACA
 GGACAGTTTCCAGGAAGATGGGCAGAGACTTGTAGTGGCGATTACCTCCAGCACAGAGAC
 GTGCCAGGCGGTGTTGGCGCTCGGGCGAGATGCTGCCCTTCTTTCACGAAGCCTGGCC
 TCTTGCTTGGCGTGATAACCCCTGTATCTTCCCAAAGCTCATTTATGAGCCACCAGAGGC
 TCCTACCCCAAAGATTTTACAGAAACTTGAGGCCAGGTGCCATGGCTCACACCTGTAAT
 CTGAACACTTTGGGAGGCCGAGGGGAGGATCACTTGAAGCCAGGATTCAGAGCCAGC
 CTGGGCAACATAGTGAGACTCCTGTCTCTACAAAATAAAAGATTTAAAAAATTAGCCA
 GGCACGGTGGCACACACTTGTAGCCCCAGCTACTAGGGAGGCTGAGGAGGGAGGATCTCT
 TGTGCCTAGGAGTTCGAGGCTGCAGTGGGCTGTGATCACACCCTGCACTCCAGCCTGG
 CAACAGAGTGAGACCCTGTCTCTGAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_173344

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p>