

## Product datasheet for SC126707

### ST8SIA2 (NM\_006011) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST8SIA2 (NM_006011) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST8SIA2
Synonyms:	HsT19690; SIAT8-B; SIAT8B; ST8SIA-II; ST8SialI; STX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126707 sequence for NM_006011 edited (data generated by NextGen Sequencing)

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ATGCAGTCGAGTTCGGAGCTGGATGCTGGCCGCGCTCACGCTGCTCGTGGTCTTCCTC
ATCTTCGAGACATCTCAGAGATCGAAGAAGAAATCGGGAATTCGGGAGGCAGAGGTACA
ATCAGATCAGCTGTGAACAGCTTACATAGCAAATCTAATAGAGCTGAAGTTGTAATAAAC
GGCTCCTCATACCAGCTGTTGTTGACAGAAGTAATGAAAGCATCAAGCACAACATCCAG
CCAGCCTCGTCCAAATGGAGACATAACCAGACGCTCTCTCTGAGGATCAGGAAGCAGATT
TTAAAGTTCTTGGATGCTGAAAAGGACATTTCTGTCTAAAGGGAACCCTGAAGCCTGGA
GATATTATTACATCTTCGATCGAGACAGCACCATGAATGTGTCCAGAACCTCTAC
GAGCTCCTCCCCAGGACTTCGCCACTGAAGAATAAGCACTTTGGGACTTGTGCCATCGT
GGCAACTCGGGGTCTTGTGAACAGCGGCTGTGGCAGGAGATTGACGCCACAGCTTC
GTCATCAGGTGCAACCTGGCCCCAGTACAGGAGTATGCCCGGGATGTGGGGCTCAAGACA
GACCTGGTAACCATGAACCCCTCGTCCATCCAGCGGGCCTTTGAGGACTTGGTCAATGCC
ACGTGGCGGGGAGAAGCTGCTGCAACGGCTGCACAGCCTCAATGGCAGCATCCTGTGGATC
CCTGCCTTCATGGCCCGGGCGGCAAGGAGCGTGTGAGTGGGTCAACGAGCTTATCCTG
AAGCACCACGTCAACGTGCGCACTGCATACCCCTCGTGCCTGCTGCACGCCGTTTCG
GGATACTGGCTGACCAACAAAGTCCACATCAAAGACCCACCACCGCCCTTTGATGTAT
ACCCTGGCCACACGTTTCTGCAAACAAATCTACCTCTACGGCTTCTGGCCCTTTCCGCTG
GATCAGAACCCAGCCAGTCAAGTACCACTATTATGACAGCCTCAAGTATGGCTACACC
TCCCAGGCCAGCCGCATACCATGCCCTTGGAGTTTAAGGCCCTCAAGAGCCTACATGAG
CAGGGGGCTTTGAAACTGACTGTGCGCCAGTGCGATGGGGCCACGTAG

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Clone variation with respect to NM\_006011.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006011 unedited  
 GTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGAGCAACCCCTGCCTGTCGC  
 TGCCGCTGCCGCTGCCGCTGCCGCGCCGCGCCGGACTCGTCCGGAGCGCAGGGTGTCTG  
 CCCAGCTGCGCGCGGCCGCGCGGAGGCTCCGGCGTCCGCGCTGCGCCCTCCGGCCCTGC  
 TCCTCGCGCCGGCCCGCTTGGGTCTGGCGGGCGCAACCCACATGCAGCTGCAGTTCC  
 GGAGCTGGATGCTGGCCGCGCTCAGCTGCTCGTGGTCTTCTCATCTTCGCAGACATCT  
 CAGAGATCGAAGAAGAAATCGGAATTCGGGAGGCAGAGGTACAATCAGATCAGCTGTGA  
 ACAGCTTACATAGCAAATCTAATAGAGCTGAAGTTGTAATAAACGGCTCCTCATACCAG  
 CTGTTGTTGACAGAAGTAATGAAAGCATCAAGCACAACATCCAGCCAGCCTCGTCCAAAT  
 GGAGACATAACCAGACGCTCTCTGAGGATCAGGAAGCAGATTTTAAAGTTCTTGGATG  
 CTGAAAAGGACATTTCTGTCTAAAGGGAACCTGAAGCCTGGAGATATTATTATTACA  
 TCTTCGATCGAGACAGCACCATGAATGTGTCCAGAACCCTACGAGCTCCTCCCAGGA  
 CTTGCCACTGAAGATAAGCACTTTGGACTTGTGCCATCGTGGGCACTCGGNGGGTCTG  
 CTAACAGCNGCTGTGGCAGGAGATNGACCCACAGCTTCGCATCAGTGCACCTGGCCAT  
 ACAGGATATGCCCGGATGTGGGCTAAAGAAGACTGGTACATGACCCCTCGTCTCCAGCG  
 CCTTGAGGACTGTCATGCCAGTGCGGAGAGCTGTGCACGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006011 unedited  
 AAAATTTTTTCTATGNACNCGCGCCGCAATCTANGANCGAGNTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTAACTTAAATATTAATCTCAATAAGGGGAAAAAAA  
 ATTTTGCAAAATCTAAAATTGCTTCTGGGGGAAAAGCGGGTACCTGGGGGGGGGGGG  
 ACATTGGAACCTCTCCCTGCAAAGATGAAAACCTCAATGTCGGAGCTTGGGGGGGGCTAG  
 TGGGACCATCAGGGTAGGAAAAGGACAAGAAAGTAACATTGACACAGCAGTCTGGCTGCA  
 AAGGCCCGCAGAGTGCAAAATGCAAAAGGCAAAACAAAAGTGGTTGCAGGGACATGGAG  
 CTAGATGCTGAACATTTTTTCAGGTCTCACACTTTGGGGCTCTGGGAGGCACCCAAAAAG  
 GCAATCATATGTTTTTAAAAAGGATGACATTTATTTTGACAGCACCCCTTTCAAGCTCTC  
 ATTGGGGCTTCCCTGGGGACAGAGGGGACAGTACAGTCCCTCGTGACATTCTAACAGGGT  
 GAGACAGAGACTAACCCAGAGGGTGAATCCCAGGGTCTCTTCCCTCAGGGGACTCAC  
 ATTGCTTTAAAAAACACCCAAAGCAGCTAGATTTTAGACTCTCCTGCCTTATTCTAGG  
 GTCAAGTGGGCCCTTAACAGGAGGTCTTGATTTTTCAAAAACATGATTGGAACATTACT  
 CCTCTTCATTGNATCTGCTTGCTTACCCAAAGTTCTTGNTGGCTCTTGCTAAGCCAG  
 AACATGAACCATCCATTGTGTCTCCTCCAGCCTTCTCCTCATAGCCGTGGAGGCCTGTCT  
 GAACATGTGAGTCATTGNGCTGTCCCTTAGCAGNCAAACCTCTACGTTGTTGGAACGAG  
 CCTCTGTGCTGAGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006011

**Insert Size:**

3200 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:** [NM\\_006011.3](#), [NP\\_006002.1](#)

**RefSeq Size:** 5626 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 8128

**UniProt ID:** [Q92186](#)

**Cytogenetics:** 15q26.1

**Domains:** Glyco\_transf\_29

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene is a type II membrane protein that is thought to catalyze the transfer of sialic acid from CMP-sialic acid to N-linked oligosaccharides and glycoproteins. The encoded protein may be found in the Golgi apparatus and may be involved in the production of polysialic acid, a modulator of the adhesive properties of neural cell adhesion molecule (NCAM1). This protein is a member of glycosyltransferase family 29. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1).