

## Product datasheet for RC219160

### ST8SIA2 (NM\_006011) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST8SIA2 (NM_006011) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST8SIA2
Synonyms:	HsT19690; SIAT8-B; SIAT8B; ST8SIA-II; ST8SialI; STX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219160 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCTGCAGTTCGGAGCTGGATGCTGGCCGCGCTCACGCTGCTCGTGGTCTTCTCATCTTCGCAG  
ACATCTCAGAGATCGAAGAAGAAATCGGGAATTCGGGAGGCAGAGGTACAATCAGATCAGCTGTGAACAG  
CTTACATAGCAAATCTAATAGAGCTGAAGTTGTAATAAACGGCTCCTCATCACCAGCTGTTGTTGACAGA  
AGTAATGAAAGCATCAAGCACAAATCCAGCCAGCCTCGTCCAAATGGAGACATAACCAGACGCTCTCTC  
TGAGGATCAGGAAGCAGATTTTAAAGTTCTTGGATGCTGAAAAGGACATTTCTGTCTAAAGGGAACCT  
GAAGCCTGGAGATATTATTCATTACATCTTCGATCGAGACAGCACCATGAATGTGTCCCAGAACCTTAC  
GAGCTCCTCCCCAGGACTTCGCCACTGAAGAATAAGCACTTTGGGACTTGTGCCATCGTGGGCAACTCGG  
GGTCTTGTGTAACAGCGGCTGTGGGCAGGAGATTGACGCCACAGCTTCGTCATCAGGTGCAACCTGGC  
CCCAGTACAGGAGTATGCCCGGGATGTGGGGCTCAAGACAGACCTGGTAACCATGAACCCGTCGGTCATC  
CAGCGGGCCTTTGAGGACTTGGTCAATGCCACGTGGCGGGAGAAGCTGCTGCAACGGCTGCACAGCCTCA  
ATGGCAGCATCCTGTGGATCCCTGCCTTCATGGCCCGGGCGGCAAGGAGCGTGTGAGTGGGTCAACGA  
GCTTATCTGAAGCACCACGTCAACGTGCGCACTGCATACCCCTCGCTGCGCTGCTGCACGCCGTTCCG  
GGATACTGGCTGACCAACAAAGTCCACATCAAAGACCCACCACCGGCCCTTTGATGTATACCTGGCCA  
CAGTTTTCTGCAAACAAATCTACCTCTACGGCTTCTGGCCCTTTCCGCTGGATCAGAACCAGAACCAGT  
CAAGTACCACTATTATGACAGCCTCAAGTATGGCTACACCTCCCAGGCCAGCGCGCATACCATGCCCTTG  
GAGTTTAAAGGCCCTCAAGAGCCTACATGAGCAGGGGGCTTGAACCTGACTGTGCGCCAGTGCGATGGG  
CCACG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219160 protein sequence  
Red=Cloning site Green=Tags(s)

MQLQFRSWMLAAL TLLVFLIFADISEIEEEEIGNSGGRGTIRSAVNSLHSKSNRAE VVINGSSSPA VVDR  
 SNESIKHNIQPASSKWRHNQTL SLRIRKQILKFLDAEKDISVLKGTLKPGDI IHYIFDRDSTMVNSQNL Y  
 ELLPRTSPLKNKHFGTCAIVGNSGVLLNSGCGQEIDAHSFVIRC NLAPVQEYARDVGLKTDLVTMNP SVI  
 QRAFEDLVNATWREKLLQRLHSLNGSILWIPAFMARGGKERVEVWNE LILKHHVNVRTAYPSLRLLHAVR  
 GYWL TNKVHIKRPTTG LLMYTLATRFCKQIYLYGF WPFPLDQNQNPVKYHYDLSLKYGYTSQASAH T MPL  
 EFKALKSLHEQGALKLTVGQCDGAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6451\\_g02.zip](https://cdn.origene.com/chromatograms/mk6451_g02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006011

**ORF Size:** 1125 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_006011.4](#)

**RefSeq Size:** 5626 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 8128

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

**Cytogenetics:** 15q26.1

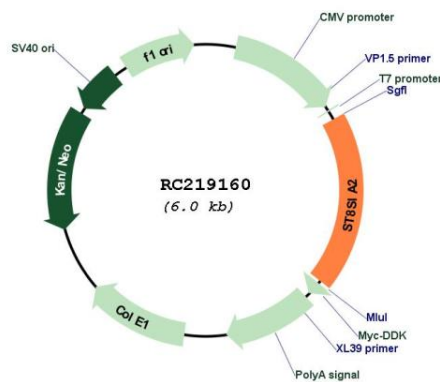
**Domains:** Glyco\_transf\_29

**Protein Families:** Transmembrane

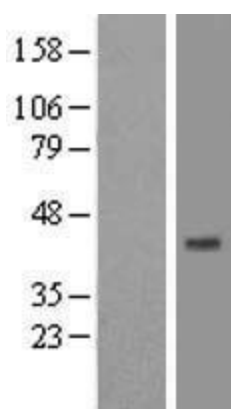
**MW:** 42.4 kDa

**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]

### Product images:



Circular map for RC219160



Western blot validation of overexpression lysate (Cat# [LY416924]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219160 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).