

## Product datasheet for RC208764

### ST8SIA4 (NM\_005668) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST8SIA4 (NM_005668) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST8SIA4
Synonyms:	PST; PST1; SIAT8D; ST8SIA-IV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208764 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCTCCATTAGGAAGAGGTGGACGATCTGCACAATAAGTCTGCTCCTGATCTTTTATAAGACAAAAG  
AAATAGCAAGAACTGAGGAGCACCAGGAGACGCAACTCATCGGAGATGGTGAATTGTCTTTGAGTCGGTC  
ACTTGTCAATAGCTCTGATAAAATCATTGAAAGGCTGGCTTTCAATCTCCAGCACAATGTAGAAGGT  
TGGAAAATCAATTCCTCTTTGGTCTAGAGATAAGGAAGAACATACTTCGTTTCTTAGATGCAGAACGAG  
ATGTGTCAGTGGTCAAGAGCAGTTTTAAGCCTGGTGTGATGCATACACTATGTGCTTGACAGCGCCGGAC  
ACTAAACATTTCTCATGATCTACATAGCCTCCTACCTGAAGTTTCACCAATGAAGAATCGCAGGTTTAAG  
ACCTGTGCAGTTGTTGAAATCTGGCATTCTGTTAGACAGTGAATGTGGAAAGGAGATTGACAGTCACA  
ATTTTGTAAATAAGGTGTAATCTAGCTCCTGTGGTGGAGTTTGTGCAGATGTGGGAACTAAATCAGATTT  
TATTACCATGAATCCATCAGTTGTACAAAGAGCATTGGAGGCTTTCGAAATGAGAGTGACAGAGAAAA  
TTTGTGCATAGACTTCCATGCTGAATGACAGTGTCTTTGGATTCTGCTTTCATGGTCAAAGGAGGAG  
AGAAGCACGTGGAGTGGGTTAATGCATTAATCCTTAAGAATAAACTGAAAGTGCGAACTGCCTATCCGTC  
ATTGAGACTTATTCATGCTGTGAGAGTTACTGGCTGACCAACAAAGTTCTATCAAAGACCCAGCACA  
GGTCTTCTCATGTATACACTTGCACAAGATTCTGTGATGAAATTCACCTGTATGGATTCGGCCCTTCC  
CTAAGGATTTAAATGGAAAAGCGGTCAAATATCATTATTATGATGACTTAAAATATAGGTACTTTTCCAA  
TGCAAGCCCTCACAGAATGCCATTAGAATTCAAACATTAATGTGCTACATAATAGAGGAGCTCTAAAA  
CTGACAACAGGAAAGTGTGTAAGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC208764 protein sequence  
Red=Cloning site Green=Tags(s)

MRSIRKRWICTISLLLIFYKTKEIARTEEHQETQLIGDGELSLSRSLVNSSDKIIRKAGSSIFQHNVEG  
 WKINSSLVLEIRKNILRFLDAERDVSVVKSSFKPGDVIHYVLDLRRRTLNI SHDLHLLPEVSPMKNRRFK  
 TCAVVGNSGILLDSECGKEIDSHNFVIRCNLAPVVEFAADVGTKSDFITMNPVSVQRAFGGFRNESDREK  
 FVHRLSMLNDSVLWIPAFMVKGGEKHVEWYNALILKNKLKVRTAYPSLRLIHAVRGYWLTKVPIKRPST  
 GLLMYTLATRFCEIHL YGFWPFKDLNGKAVKYHYDDLYRYFNSASPHRMPLEFKTLNVLHNRGALK  
 LTTGKCKVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6857\\_e06.zip](https://cdn.origene.com/chromatograms/mk6857_e06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



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

**ACCN:** NM\_005668

**ORF Size:** 1077 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\\_005668.6](#)

**RefSeq Size:** 6332 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 7903

**UniProt ID:** [Q92187](#)

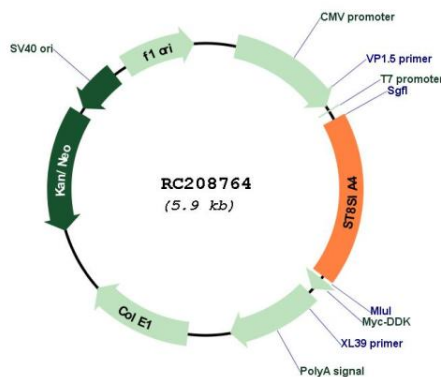
**Cytogenetics:** 5q21.1

**Domains:** Glyco\_transf\_29

**MW:** 41.3 kDa

**Gene Summary:** The protein encoded by this gene catalyzes the polycondensation of alpha-2,8-linked sialic acid required for the synthesis of polysialic acid, a modulator of the adhesive properties of neural cell adhesion molecule (NCAM1). The encoded protein, which is a member of glycosyltransferase family 29, is a type II membrane protein that may be present in the Golgi apparatus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC208764