

## Product datasheet for SC127145

### ST8SIA4 (NM\_005668) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST8SIA4 (NM_005668) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST8SIA4
Synonyms:	PST; PST1; SIAT8D; ST8SIA-IV
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127145 sequence for NM_005668 edited (data generated by NextGen Sequencing)

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ATGCGCTCCATTAGGAAGAGGTGGACGATCTGCACAATAAGTCTGCTCCTGATCTTTTAT
AAGACAAAAGAAATAGCAAGAAGCTGAGGAGCACCAAGGAGACGCAACTCATCGGAGATGGT
GAATTGCTTTGAGTCGGTCACTTGTCAATAGCTCTGATAAAAATCATTGAAAGGCTGGC
TCTTCAATCTTCCAGCACAATGTAGAAGTTGGAAAATCAATTCCTCTTTGGTCCTAGAG
ATAAGGAAGAACAATACTTCGTTTCTTAGATGCAGAACGAGATGTGTCAGTGGTCAAGAGC
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TCTCATGATCTACATAGCCTCCTACCTGAAGTTTACCAATGAAGAATCGCAGGTTTAAG
ACCTGTGCAGTTGTTGAAAATTCTGGCATTCTGTTAGACAGTGAATGTGAAAGGAGATT
GACAGTACAATTTTGAATAAGGTGTAATCTAGCTCCTGTGGTGGAGTTTGCTGCAGAT
GTGGGAACTAAATCAGATTTTATTACCATGAATCCATCAGTTGTACAAAGAGCATTGGA
GGCTTTCGAAATGAGAGTGACAGAGAAAAATTTGTGCATAGACTTTCATGCTGAATGAC
AGTGTCTTTGGATTCTGCTTTTCATGGTCAAAGGAGGAGAGAAGCACGTGGAGTGGGTT
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ATTCATGCTGTCAGAGGTTACTGGCTGACCAACAAAGTTCCCTATCAAAGACCCAGCACA
GGTCTTTCATGTATACACTTGCCACAAGATTCTGTGATGAAATTCACCTGTATGGATTCT
TGGCCCTCCCTAAGGATTTAAATGGAAAAGCGGTCAAATATCATTATTATGATGACTTA
AAATATAGGTACTTTTCCAATGCAAGCCCTCACAGAATGCCATTAGAATCAAACATTA
AATGTGCTACATAATAGAGGAGCTCTAAAAGTACAACAGGAAAGTGTGTAAGCAATAA

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Clone variation with respect to NM\_005668.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_005668 unedited            GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCACCTCCAATGCACAA            GGTGTCTCATCTGAAAAACCTGAGCCCCAGGGAGGCGGCGGAGCGACCCCTGGCAGAGC            TGGCGCAAACAGGGCGAGAGGTCTGCTGGGCAGCGTTTCGAGGACCAGAGGGAGCTCGGCCA            CAGAAGACCCAGCGATCTGATCCCGGGATCCCGGCTCCAAGCTCTCCTCGCATTTTACA            GATTTACCCCCGCGACTATCTCCCAAAACGGAGCCTTTATATCAAGAGAAGGTGCGGG            AGCTGGGGCAACCAGGACTTTCTCGGGCACCCAAGATGCGCTCCATTAGGAAGAGGTGGA            CGATCTGCACAATAAGTCTGCTCCTGATCTTTTATAAGACAAAAGAAATAGCAAGAACTG            AGGAGCACAGGAGACGCAACTCATCGGAGATGGTGAATTGTCTTTGAGTCGGTCACTTG            TCAATAGCTCTGATAAAATCATTGAAAGGCTGGCTCTTCAATCTTCCAGCACAAATGTAG            AAGTTGGAAAATCAATTCCTCTTTGGTCTAGAGATAAGGAAGAACATACTTCGTTTCT            TAGATGCAGAACGAGATGTGTCAGTGGTCAAGAGCAGTTTTAAGCCTGGTATGCATAC            ACTATGTGCTTGACAGGCGCCGGACACTAAACATTTCTCATGATCTACATAGCCTCTAC            CTTGAGTTTACCAATGAAGAATCGCAGGTTTAAAGCCTGTGCAGTTGTTGGAAAATCTG            GCATTCTGTTAGACAGTGAATGTGAAAGGCAGATTGACAGTCACAATTTTGAATAAGG            TGAATCTAACTCCTGTGTTGGAGTTTGTCTGCACATGTGGAACTAAATCAGATTTTATT            ACCATGACTCCATCAGNTGTACAAGAGCAT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005668 unedited            CGCCCTTAGCGTCGAGTTTTATCCTTTTTTTTTTATAGATTTTATAAATCACTTTCAATTT            ATCTAGNTAAACAGTACTCTTCAACTTCTACATCTCAAACATGTATCTATTCTCTTA            CAATTTCTGATAGATAAGAGTTTAATTATAAAAGCACATTAATGTTCCATTCATTTTTA            GCTATCAGGCTCCTATACGATTAGATTTTACTTACTTAGAGACACATACATTCTCTAAA            AGCATGCAATATTCTATATCCCAAGTTTTACTATATTAATAAATAATGACATCTAATTA            AAAATATTGAACTGCACTACTGTGAATATTCTTTTGCATGGTAACACACACACACACA            CACGACTTTCATGCTTTTTATTGATTACTGAGACTGTCTCCCCTAAGAAACAAAACATAT            ATATCCCATGCCATTGCTTCTTTGCTCAAATGGCTGGGCAAGAAAATAAGAAATGAAA            GCCCAAGCGACAATGCACAGCTTCTGCCAGTTTCTAAAGAAACAATGCTACTATGATAA            GCTACCAGAAAATGGCCTATTGGTCAATTCTGTACATACATTAATAAATTTTTAATTACT            TTATTAATAATTCATGTGTCACCTTGAACAACATATGTGATATTTGCGACTAAATTTAAC            TACAGAAAATATCGCCAATCAAATTCATTCTAAATGCTTAATATTGACACGATTGGACT            GCCCAAACGCTCTTGAGATCAATCACTGGCTGTGGTGAGAACAACTCTATTAATAATG            CTATTTGCTGCCCTAACAAATTTACCAGCATACTTAAAGCGTTTCGCCTATTGTCATTGCA            ATAGACGGGGATATCCAAGAACTGGCAAGCCATTGCAGCTGTCTCGATCTAATTTTCAT            GCTAAAGGGACAAGGCTGCCACAAATTCATGGGATGCCAAAGCGGGCAAAACCTCGCAA            TGAATAAGCCTGGGTCTGGATTCATAAATTCAAAGAACACCTTGCCTTATAACAGAAA            T</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005668
<b>Insert Size:</b>	3800 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_005668.3](#), [NP\\_005659.1](#)

**RefSeq Size:** 6051 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 7903

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

**Cytogenetics:** 5q21.1

**Domains:** Glyco\_transf\_29

**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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.