

Product datasheet for SC312288

ST8SIA4 (NM_175052) Human Untagged Clone

Product data:

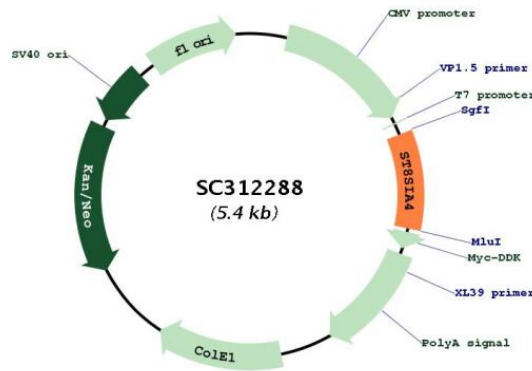
Product Type:	Expression Plasmids
Product Name:	ST8SIA4 (NM_175052) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST8SIA4
Synonyms:	PST; PST1; SIAT8D; ST8SIA-IV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC312288 representing NM_175052. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCTCCATTAGGAAGAGGTGGACGATCTGCACAATAAGTCTGCTCCTGATCTTTATAAGACAAAA
GAAATAGCAAGAAGTGGAGCACCAGGAGACGCAACTCATCGGAGATGGTGAATTGTCTTTGAGTCGG
TCACTTGTCAATAGCTCTGATAAAATCATTGAAAGGCTGGCTTTCAATCTCCAGCACAATGTAGAA
GGTTGGAAAATCAATTCCTTTGGTCTAGAGATAAGGAAGAACAATACTTCGTTTCTTAGATGCAGAA
CGAGATGTGTAGTGGTCAAGAGCAGTTTTAAGCCTGGTATGTCATACACTATGTGCTTGACAGGCGC
CGGACACTAAACATTTTCATGATCTACATAGCCTCCTACCTGAAGTTTACCAATGAAGAATCGCAGG
TTTAAGACCTGTGCAGTTGTTGGAAATTCTGGCATTCTGTTAGACAGTGAATGTGGAAAGGAGATTGAC
AGTCACAATTTTGAATAAGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN:	NM_175052
Insert Size:	507 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).
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:

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_175052.2](#)

RefSeq Size: 1906 bp

RefSeq ORF: 507 bp

Locus ID: 7903

UniProt ID: [Q92187](#)

Cytogenetics: 5q21.1

MW: 19.3 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]

Transcript Variant: This variant (2) lacks two exons and its transcription extends past a splice site that is used in variant 1, resulting in a shorter 3' coding region and a novel 3' UTR compared to variant 1. It encodes isoform b which is truncated at the C-terminus, compared to isoform a.