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Product datasheet for SC118261

ST8SIA1 (NM_003034) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST8SIA1 (NM_003034) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST8SIA1
Synonyms:	GD3S; SIAT8; SIAT8-A; SIAT8A; ST8SiaI
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003034, the custom clone sequence may differ by one or more nucleotides

ATGAGCCCCTGCGGGCGGGCCCGGCGACAAACGTCCAGAGGGGCCATGGCTGTACTGGCGTGGAAGTTCC
CGCGGACCCGGCTGCCCATGGGAGCCAGTGCCCTCTGTGTCGTGGTCCTCTGTTGGCTCTACATCTTCCC
CGTCTACCGGCTGCCCAACGAGAAAGAGATCGTGCAGGGGGTGCTGCAACAGGGCACGGCGTGGAGGAGG
AACCAGACCGCGGCCAGAGCGTTCAGGAAACAAATGGAAGACTGCTGCGACCCTGCCCATCTCTTTGCTA
TGACTAAAATGAATTCCCCTATGGGGAAGAGCATGTGGTATGACGGGGAGTTTTTATACTCATTCACCAT
TGACAATTCAACTTACTCTCTCTTCCCACAGGCAACCCCATTCCAGCTGCCATTGAAGAAATGCGCGGTG
GTGGGAAATGGTGGGATTCTGAAGAAGAGTGGCTGTGGCCGTCAAATAGATGAAGCAAATTTTGTCATGC
GATGCAATCTCCCTCCTTTGTCAAGTGAATACACTAAGGATGTTGGATCCAAAAGTCAGTTAGTGACAGC
TAATCCCAGCATAATTCGGCAAAGGTTTCAGAACCTTCTGTGGTCCAGAAAGACATTTGTGGACAACATG
AAAATTTATAACCACAGTTACATCTACATGCCTGCCTTTTCTATGAAGACAGGAACAGAGCCATCTTTGA
GGGTTTATTATACACTGTCAGATGTTGGTGCCAATCAAACAGTGCTGTTTGCCAACCCCAACTTTCTGCG
TAGCATTGGAAAGTTCTGGAAAAGTAGAGGAATCCATGCCAAGCGCCTGTCCACAGGACTTTTTCTGGTG
AGCGCAGCTCTGGGTCTCTGTGAAGAGGTGGCCATCTATGGCTTCTGGCCCTTCTCTGTGAATATGCATG
AGCAGCCCATCAGCCACCACTACTATGACAACGTCTTACCCTTTTCTGGCTTCCATGCCATGCCCGAGGA
ATTTCTCCAACTCTGGTATCTTCATAAAATCGGTGCACTGAGAATGCAGCTGGACCCATGTGAAGATACC
TCACTCCAGCCCACTTCCTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003034 unedited
TTAGGAGGGAGCCGAGCCTTCTCCCGGACCCTCGCCGAGGGCGACCGTGATGCTGCAGAA
CCGGCGGGAGCGACTCGCCGCCGCCGCTCTCTGCGCATCTCTGAGACCCCAGCGCCCGCC
TTCTGCAGGGGAAGCGACCATGGCCATAGATCGTGACTTCACCCCCAGCCACTTCCCCTA
GAAAGAAATCCTTGGAAAAGTTGCATTTGAAAAAATCCTTGCGCTGACCTTTGGGGCCGA
CGGGGCCGAAGAAGCGTGCGTGCGTTTGCAAGTAAGAGAACCAAAGGTGTGTGTGCATGG
GGGGCTGGCGGTGGGGGACCCTCCGCTGCCACTTCGCCTAGCTTTGTGCTGAGGCCCCGG
CCCCCGCCCCTGGGACGCCGGGGCTGCGATGAGCCCCTGCGGGCGGGCCCGGCGACAAAC
GTCCAGAGGGGCCATGGCTGTACTGGCGTGGAAGTTCCCGCGGACCCGGCTGCCCATGGG
AGCCAGTGCCCTCTGTGTCGTGGTCCTCTGTTGGCTCTACATCTTCCCCGTCTACCGGCT
GCCCAACGAGAAAGAGATCGTGCAGGGGGGTGCTGCACAGGGGCACGGCGTGGAGAGGAA
CCAGACCCGCGGCCAGAGCGTCAGGAAACAATGGAAGACTGCTGCGAACCTGCCCATCTC
TTTGCTATGACTAANATGGAATTCCCTATGGGNAGAGCATGTGGTATGACGGGGAGTTTT
ATACTCATTACCATTGACAATTAACTTACTCTCTCTTCCACAGGCNACCCCATTTCAGCT
GCCATTGAAGAATGCGCCGTGGTGGGAAATAGTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003034 unedited
TTTTTTTTTTTTTTGAGACAGGGTCTTGCCCTGTCACCCAGGCTGGAGTGCAGTGGCACC
ATCTTGGCTCACTGCAACCTCCACTTCCTGGGTTTAAGAGATTCTAGTCCAGATGATATT
TTCAATGGAACTGTGATGTATGGGCTCTATGGAGCTCATTAATTACATTTTAACAATTAA
AGTACTAATCTGAGTAACATTTTATTAACTTTTATATGCGTTTTTGTTAAGCCTTTTATA
TTTTTAATGGTAGACTAGTAAAAATGTATTCTTTTTTAGGTAACTGC

Restriction Sites: NotI-NotI

ACCN: NM_003034

Insert Size: 2290 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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).

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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_003034.2, NP_003025.1
RefSeq Size:	2117 bp
RefSeq ORF:	1071 bp
Locus ID:	6489
UniProt ID:	Q92185
Cytogenetics:	12p12.1
Domains:	Glyco_transf_29
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
Gene Summary:	Gangliosides are membrane-bound glycosphingolipids containing sialic acid. Ganglioside GD3 is known to be important for cell adhesion and growth of cultured malignant cells. The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to GM3 to produce gangliosides GD3 and GT3. The encoded protein may be found in the Golgi apparatus and is a member of glycosyltransferase family 29. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2015] Transcript Variant: This variant (1) is the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.

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