

## Product datasheet for RC223851

### ST8SIA1 (NM\_003034) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST8SIA1 (NM_003034) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST8SIA1
Synonyms:	GD3S; SIAT8; SIAT8-A; SIAT8A; ST8Sial
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223851 representing NM_003034 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCCCTGCGGGCGGCCCGGCAGACAAACGTCCAGAGGGCCATGGCTGTACTGGCGTGAAGTTCC  
CGCGGACCCGGCTGCCATGGGAGCCAGTGCCCTCTGTGTCGTGGTCTCTGTTGGCTCTACATCTTCCC  
CGTCTACCGGCTGCCAACGAGAAAGAGATCGTGCAGGGGGTGTGCAACAGGGCACGGCGTGGAGGAGG  
AACCAGACCGCGCCAGAGCGTTCAGGAAACAAATGGAAGACTGCTGCGACCCTGCCATCTCTTTGCTA  
TGACTAAAATGAATCCCTATGGGAAGAGCATGTGGTATGACGGGGAGTTTTATACTCATTCCACCAT  
TGACAATCAACTTACTCTCTTCCCACAGGCAACCCATTCCAGCTGCCATTGAAGAAATGCGCGGTG  
GTGGGAAATGGTGGGATTCTGAAGAAGAGTGGCTGTGGCCGTCAAATAGATGAAGCAAAATTTGTATGC  
GATGCAATCTCCCTCCTTTGTCAAGTGAATACACTAAGGATGTTGGATCCAAAAGTCAGTTAGTGACAGC  
TAATCCCAGCATAATTCGGCAAAGGTTTCAGAACCTTCTGTGGTCCAGAAAGACATTTGTGGACAACATG  
AAAATCTATAACCACAGTTACATCTACATGCCTGCCTTTTCTATGAAGACAGGAACAGAGCCATCTTTGA  
GGGTTTATTATACTGTGAGTGTGGTCCAAACAGTGTGTTGCCAACCCCACTTTCTGCG  
TAGCATTGGAAAGTTCTGAAAAGTAGAGGAATCCATGCCAAGCGCCTGTCCACAGGACTTTTTCTGGTG  
AGCGCAGCTCTGGTCTCTGTGAAGAGGTGCCATCTATGGCTTCTGGCCCTTCTGTGAATATGCATG  
AGCAGCCATCAGCCACCCTACTATGACAACGCTTACCCTTTTCTGGCTTCCATGCCATGCCCGAGGA  
ATTTCTCAACTCTGGTATCTTCATAAAATCGGTGCACTGAGAATGCAGCTGGACCCATGTGAAGATACC  
TCACTCCAGCCCACTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



[View online »](#)

**Protein Sequence:** >RC223851 representing NM\_003034  
Red=Cloning site Green=Tags(s)

MSPCGRARRQTSRGAMAVLAWKFPRTPLMGASALCVVVL CWLYIFPVYRLPNEKEIVQGV LQQGTAWRR  
 NQTAARAFRKQMEDCCDPAHLFAMTKMNSPMGKSMWYDGEFLYSFTIDNSTYSLFPQATPFQLPLKCAV  
 VGNGGILKKS GCGRQIDEANFVMRCNLPLSSEYTKDVGSKSQLVTANPSIIRQRFQNL LWSRKT FVDNM  
 KIYNHSYIYMPAFSMKTGTEPSLRVYYT LSDVGANQTVL FANPNFLRSIGKFWKSRGIHAKRLSTGLFLV  
 SAALGLCEEVAIYGFWPF SVNMHEQPI SHHYDNLV L PFSGFHAMPEEFLQLWYLHKIGALRMQLDPCEDT  
 SLQPTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6094\\_g06.zip](https://cdn.origene.com/chromatograms/mk6094_g06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003034

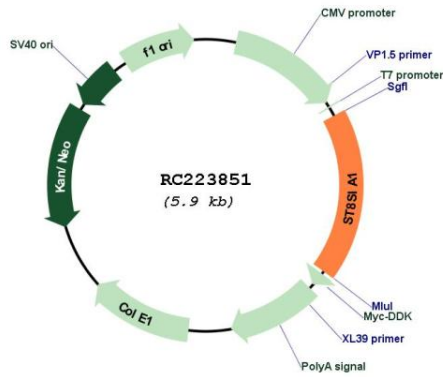
**ORF Size:** 1068 bp

**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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

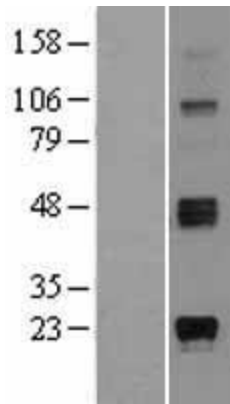
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003034.1</a>
<b>RefSeq Size:</b>	2117 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	6489
<b>UniProt ID:</b>	<a href="#">Q92185</a>
<b>Cytogenetics:</b>	12p12.1
<b>Domains:</b>	Glyco_transf_29
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
<b>MW:</b>	40.3 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC223851



Western blot validation of overexpression lysate (Cat# [LY401062]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223851 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).