

Product datasheet for **RG219160**

ST8SIA2 (NM_006011) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST8SIA2 (NM_006011) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST8SIA2
Synonyms:	HsT19690; SIAT8-B; SIAT8B; ST8SIA-II; ST8SialI; STX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219160 representing NM_006011 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTGCAGTTCGGAGCTGGATGCTGGCCGCGCTCACGCTGCTCGTGGTCTTCTCATCTTCGCAG
ACATCTCAGAGATCGAAGAAGAAATCGGGAATTCGGGAGGCAGAGGTACAATCAGATCAGCTGTGAACAG
CTTACATAGCAAATCTAATAGAGCTGAAGTTGTAATAAACGGCTCCTCATCACCAGCTGTTGTTGACAGA
AGTAATGAAAGCATCAAGCACAAATCCAGCCAGCCTCGTCCAAATGGAGACATAACCAGACGCTCTCTC
TGAGGATCAGGAAGCAGATTTTAAAGTTCTTGGATGCTGAAAAGGACATTTCTGTCTAAAGGGAACCT
GAAGCCTGGAGATATTATTCATTACATCTTCGATCGAGACAGCACCATGAATGTGTCCCAGAACCTCTAC
GAGCTCCTCCCCAGGACTTCGCCACTGAAGAATAAGCACTTTGGGACTTGTGCCATCGTGGGCAACTCGG
GGTCTTGTCTGAACAGCGGCTGTGGCAGGAGATTGACGCCACAGCTTCGTCATCAGGTGCAACCTGGC
CCCAGTACAGGAGTATGCCCGGGATGTGGGGCTCAAGACAGACCTGGTAACCATGAACCCGTCGGTCATC
CAGCGGGCCTTTGAGGACTTGGTCAATGCCACGTGGCGGGAGAAGCTGCTGCAACGGCTGCACAGCCTCA
ATGGCAGCATCCTGTGGATCCCTGCCTTCATGGCCCGGGCGGCAAGGAGCGTGTGAGTGGGTCAACGA
GCTTATCTGAAGCACCACGTCAACGTGCGCACTGCATACCCCTCGCTGCGCTGCTGCACGCCGTTTCG
GGATACTGGCTGACCAACAAAGTCCACATCAAAGACCCACCACCGGCCCTTTGATGATACCTGGCCA
CAGTTTTCTGCAAACAAATCTACCTCTACGGCTTCTGGCCCTTTCCGCTGGATCAGAACCAGAACCAGT
CAAGTACCACTATTATGACAGCCTCAAGTATGGCTACACCTCCCAGGCCAGCGCGCATACCATGCCCTTG
GAGTTTAAAGCCCTCAAGAGCCTACATGAGCAGGGGGCTTGAACCTGACTGTGCCAGTGCATGGGG
CCACG

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219160 representing NM_006011
 Red=Cloning site Green=Tags(s)

MQLQFRSWMLAALTLLVVFLIFADISEIEEEEIGNSGGRGTIRSAVNSLHSKSNRAEVIINGSSSPAVVDR
 SNESIKHNIQPASSKWRHNQTLRLRIRKQILKFLDAEKDISVLKGTLPKGDIIHYIFDRDSTMNVSQNLV
 ELLPRTSPLKNKHFGTCAIVGNSGVLLNSGCGQEIDAHSFVIRCNLAPVQYARDVGLKTDLVTMNP SVI
 QRAFEDLVNATWREKLLQRLHSLNGSILWIPAFMARGGKERVEWVNELILKHHVNVRTAYPSLRLLHAVR
 GYWLTKVHIKRPTTGLLMYTLATRFCKQIYLYGFWPFPLDQNPVKYHYDLSLKYGYTSQASAHTMPL
 EFKALKSLHEQGALKLTVGQCDGAT

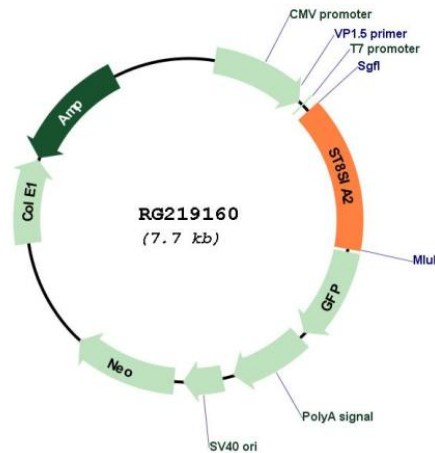
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006011

ORF Size:	1125 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:	<ol style="list-style-type: none">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_006011.3 , NP_006002.1
RefSeq Size:	5626 bp
RefSeq ORF:	1128 bp
Locus ID:	8128
UniProt ID:	Q92186
Cytogenetics:	15q26.1
Domains:	Glyco_transf_29
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is a type II membrane protein that is thought to catalyze the transfer of sialic acid from CMP-sialic acid to N-linked oligosaccharides and glycoproteins. The encoded protein may be found in the Golgi apparatus and may be involved in the production of polysialic acid, a modulator of the adhesive properties of neural cell adhesion molecule (NCAM1). This protein is a member of glycosyltransferase family 29. [provided by RefSeq, Jul 2008]