

## Product datasheet for **RG217696**

### SIAT4A (ST3GAL1) (NM\_003033) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SIAT4A (ST3GAL1) (NM_003033) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIAT4A
Synonyms:	1; Gal-NAc6S; SIAT4A; SIATFL; ST3GalA; ST3GalA.1; ST3GalIA; ST3O
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217696 representing NM_003033 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGTGACCTGCGGAAGAGGACCCTGAAAGTGCTCACCTTCCTCGTGCTTTCATCTTCCTCACCTCT  
TCTTCCTGAACTACTCCCACACCATGGTGGCCACCACCTGGTTCCCAAGCAGATGGTCTGGAGCTCTC  
CGAGAACCTGAAGAGACTGATCAAGCACAGGCCTTGCACCTGCACCCACTGCATCGGGCAGCGCAAGCTC  
TCGGCCTGGTTCGATGAGAGGTTCAACCAGACCATGCAGCCGCTGCTGACTGCCAGAACCGCTCTTGG  
AGGACGACACCTACCGATGGTGGCTGAGGCTCCAGCGGGAGAAGAAGCCCAATAACTTGAATGACACCAT  
CAAGGAGCTGTTCAAGTGGTGCCTGGGAATGTGGACCCATATGCTGGAGAAGAGGTCCGGTGGGCTGCCGG  
CGCTGCGCCGTTGTGGCAACTCGGGCAACCTGAGGGAGTCTTCTTATGGCCTGAGATAGACAGTCACG  
ACTTTGTCTCAGGATGAACAAGGCGCCACCGGACGGGTTTGAAGCTGATGTTGGGACCAAGACCACCCA  
CCATCTGGTGTACCCTGAGAGCTTCCGGGAGCTGGGAGATAATGTGAGCATGATCCTGGTGCCTTCAAG  
ACCATCGACTTGGAGTGGGTGGTGGAGCGCCATCACCACGGGCACCATTTCCCACACCTACATCCCGGTT  
CTGCAAAGATCAGAGTGAACAGGATAAGATCCTGATCTACCACCCAGCCTTCAAGTATGTCTTTGA  
CAACTGGCTGCAAGGGCACGGGCATACCATCTACCGGCATCCTCTCGGTCATCTTCAATGCATGTC  
TGCGATGAGGTGGACTTGTACGGCTTCGGGGCAGACAGCAAAGGGAACCTGGCACCCTACTGGGAGAACA  
ACCCATCCGCGGGGCTTTTCGCAAGACGGGGTGCACGATGCAGACTTTGAGTCAACGTGACGGCCAC  
CTTGGCCTCCATCAATAAAATCCGGATCTTCAAGGGGAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217696 representing NM\_003033  
 Red=Cloning site Green=Tags(s)

MVTLRKRTLKVL TFLVLFIFLTSFFLNYSHTMVATTWFPKQMVLELSENLRLIKHRPCTCTHCIGQRKL  
 SAWFDERFNQTMQPLLTAQNALLEDDTYRWWLR LQREKKPNNLNDTIKELFRVVPGNVDPMLEKRSVGC  
 RCAVVGNSGNLRESSYGPEIDSHDFVLRMKNKAPTAGFEADVGTKTTHHLVYPESFRELGDNVSMILV  
 PFK TIDLEWVYSAITTG TISHTYIPVPAKIRVKQDKIL IYHPAFIKYVFDNWLQGHGRYPSTGILSVIF  
 SMHV CDEV DLYGFGADSKGNWHHYWENNPSAGAFRKTGVHDADFE SNVTATLASINKIRIFKGR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003033

**ORF Size:** 1020 bp

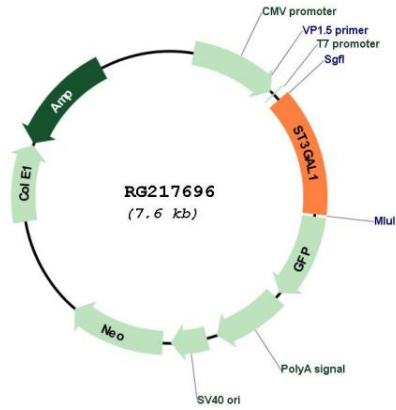
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_003033.2</a> , <a href="#">NP_003024.1</a>
<b>RefSeq Size:</b>	2911 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	6482
<b>UniProt ID:</b>	<a href="#">Q11201</a>
<b>Cytogenetics:</b>	8q24.22
<b>Domains:</b>	Glyco_transf_29
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Keratan sulfate biosynthesis, Metabolic pathways, O-Glycan biosynthesis
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi but can be proteolytically processed to a soluble form. Correct glycosylation of the encoded protein may be critical to its sialyltransferase activity. This protein, which is a member of glycosyltransferase family 29, can use the same acceptor substrates as does sialyltransferase 4B. Two transcript variants encoding the same protein have been found for this gene. Other transcript variants may exist, but have not been fully characterized yet. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG217696