

Product datasheet for **RG202064**

SIAT4A (ST3GAL1) (NM_173344) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIAT4A (ST3GAL1) (NM_173344) 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:	>RG202064 representing NM_173344 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGACCTGCGGAAGAGGACCCTGAAAGTGCTCACCTTCCTCGTGCTTTCATCTTCCTCACCTCT
TCTTCCTGAACTACTCCCACACCATGGTGGCCACCACCTGGTTCCCAAGCAGATGGTCTGGAGCTCTC
CGAGAACCTGAAGAGACTGATCAAGCACAGGCCTTGCACCTGCACCCACTGCATCGGGCAGCGCAAGCTC
TCGGCCTGGTTCGATGAGAGGTTCAACCAGACCATGCAGCCGCTGCTGACTGCCAGAACCGCTCTTGG
AGGACGACACCTACCGATGGTGGCTGAGGCTCCAGCGGGAGAAGAAGCCCAATAACTTGAATGACACCAT
CAAGGAGCTGTTCAAGTGGTGCCTGGGAATGTGGACCCATATGCTGGAGAAGAGGTCCGGTGGGCTGCCGG
CGCTGCGCCGTTGTGGCAACTCGGGCAACCTGAGGGAGTCTTCTTATGGCCTGAGATAGACAGTCACG
ACTTTGTCTCAGGATGAACAAGGCGCCACCGGACGGGTTTGAAGCTGATGTTGGGACCAAGACCACCCA
CCATCTGGTGTACCCTGAGAGCTTCCGGGAGCTGGGAGATAATGTGAGCATGATCCTGGTGCCTTCAAG
ACCATCGACTTGGAGTGGGTGGTGGAGCGCCATCACCACGGGCACCATTTCCCACACCTACATCCCGGTT
CTGCAAAGATCAGAGTGAACAGGATAAGATCCTGATCTACCACCCAGCCTTCAAGTATGTCTTTGA
CAACTGGCTGCAAGGGCACGGGCATACCCATCTACCGGCATCCTCTCGGTCATCTTCAATGCATGTC
TGCGATGAGGTGGACTTGTACGGCTTCCGGGCAGACAGCAAAGGGAACCTGGCACCCTACTGGGAGAACA
ACCCATCCGCGGGGCTTTTCGCAAGACGGGGTGCACGATGCAGACTTTGAGTCAACGTGACGGCCAC
CTTGGCCTCCATCAATAAAATCCGGATCTTCAAGGGGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202064 representing NM_173344
Red=Cloning site Green=Tags(s)

MVTLRKRTLKVL TFLVLFIFLTSFFLNYSHTMVATTWFPKQMVLELSENLRLIKHRPCTCTHCIGQRKL
 SAWFDERFNQTMQPLLTAQNALLEDDTYRWLRLQREKKPNLNDTIKELFRVVPGNVDPMLEKRSVGCGR
 RCAVVGNSGNLRESSYGPEIDSHDFVLRMKNKAPTAGFEADVGTKTTHHLVYPESFRELGDNVSMILVPFK
 TIDLEWVVS AIT TGT ISHTYIPVPAKIRVKQDKIL IYHPAFIKYVFDNWLQGHGRYPSTGILSVIFSMHV
 CDEVDL YGFGADSKGNWHHYWENNP SAGAFRKTGVHDADFE SNVTATLASINKIRIFKGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173344

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).

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_173344.1 , NP_775479.1
RefSeq Size:	2708 bp
RefSeq ORF:	1023 bp
Locus ID:	6482
UniProt ID:	Q11201
Cytogenetics:	8q24.22
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Keratan sulfate biosynthesis, Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	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]

Product images:



Circular map for RG202064