

Product datasheet for RC216697L4

OriGene Technologies, Inc.

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ST6GALNAC1 (NM_018414) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ST6GALNAC1 (NM_018414) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: ST6GALNAC1

Synonyms: HSY11339; SIAT7A; ST6GalNAcl; STYI

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone

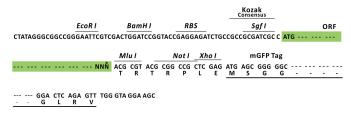
Sequence:

The ORF insert of this clone is exactly the same as(RC216697).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_018414

ORF Size: 1800 bp





ST6GALNAC1 (NM_018414) Human Tagged Lenti ORF Clone - RC216697L4

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: 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: <u>NM 018414.2</u>

 RefSeq Size:
 2437 bp

 RefSeq ORF:
 1803 bp

 Locus ID:
 55808

 UniProt ID:
 Q9NSC7

 Cytogenetics:
 17q25.1

Domains: Glyco_transf_29

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

MW: 68.6 kDa

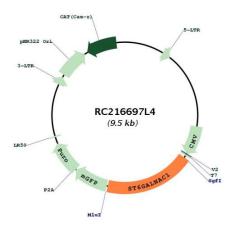
Gene Summary: Glycosylation of proteins affects cell-cell interaction, interactions with the matrix, and the

functions of intracellular molecules. ST6GALNAC1 transfers a sialic acid, N-acetylneuraminic acid (NeuAc), in an alpha-2,6 linkage to O-linked GalNAc residues. The cancer-associated sialyl-Tn (sTn) antigen is formed by ST6GALNAC1-catalyzed sialylation of GalNAc residues on mucins (Ikehara et al., 1999 [PubMed 10536037]; Sewell et al., 2006 [PubMed 16319059]).

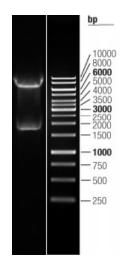
[supplied by OMIM, Mar 2008]



Product images:



Circular map for RC216697L4



Double digestion of RC216697L4 using Sgfl and Mlul $\,$