

Product datasheet for **RC236399**

ST3GAL6 (NM_001271148) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ST3GAL6 (NM_001271148) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ST3GAL6
Synonyms: SIAT10; ST3GALVI
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236399 representing NM_001271148
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATAATGGTCTGTTTTAGGACATGAAGAAGAAGTTGGGAGAAGGACAACCTCCGACTTTTTATC
CAGAATCTGTTTTTCAGATCCTATTCACAATGACCCTAATACGACAGTGATTCTCACTGCTTTAAAGCC
ACATGATTTAAGGTGGCTGTTGGAATTGTTGATGGGTGACAAAATAAACACTAATGGTTTTTGAAGAAA
CCAGCCTTAAACCTGATTATAAACCTTATCAAATCCGAATATTAGATCCTTTCATTATCAGAACAGCAG
CTTATGAACTGCTTCATTTTCCAAAAGTGTTCCTCCAAAATCAGAAACCTAAACACCCAACAGGAAT
TATTGCCATCACATTGGCGTTTTACATATGTCACGAAGTTCACCTAGCTGGTTTTAAATACAACCTTTCT
GACCTCAAGAGTCCTTTGCACTACTATGGGAATGCCACCATGTCTTTGATGAATAAGAACGCGTATCACA
ATGTGACTGCAGAGCAGCTCTTTTTGAAGGACATTATAGAAAAAACCTCGTAATCAACTTGACTCAAGA
T

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236399 representing NM_001271148
Red=Cloning site Green=Tags(s)

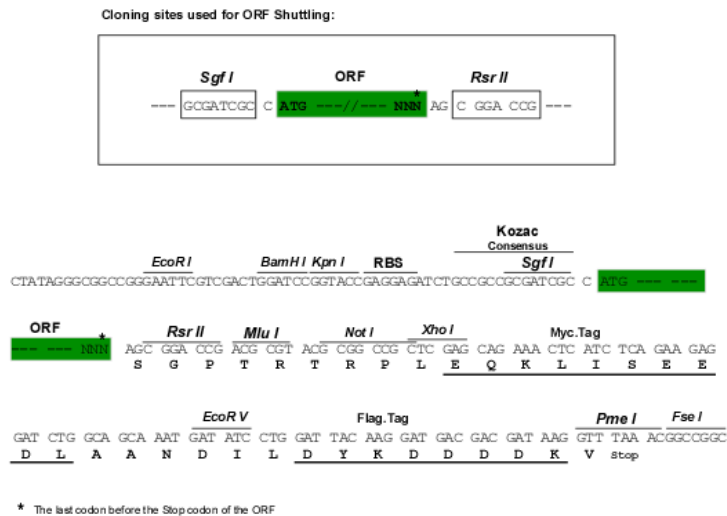
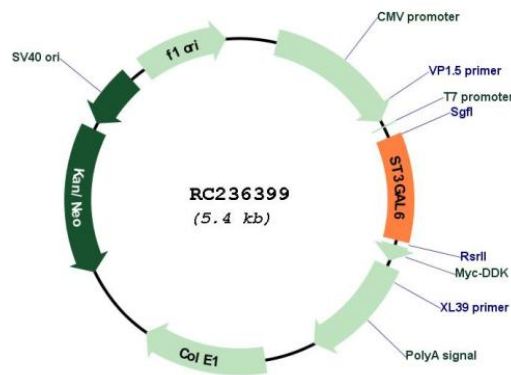
MNGPVLGHEEEVGRRTTFRLLFYPESVFSDFIHNPNNTTIVLTAFKPHDLRWLLELLMGDKINTNGFWKK
PALNLIYKPYQIRILDPFIIRTAAYELLHFPKVFKNQPKHPTTGIIAITLAFYICHEVHLAGFKYNFS
DLKSPLHYGNATMSLMNKNAYHNVTAEQFLKDIIEKNLVINLTQD

SGPTRTRPLEQKLI**SEEDLAANDILDYKDDDDK**V

Restriction Sites: SgfI-RsrII



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001271148

ORF Size: 561 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:

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_001271148.1](#), [NP_001258077.1](#)

RefSeq Size: 3146 bp

RefSeq ORF: 564 bp

Locus ID: 10402

Cytogenetics: 3q12.1

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

MW: 22.1 kDa

Gene Summary: The protein encoded by this gene is a member of the sialyltransferase family. Members of this family are enzymes that transfer sialic acid from the activated cytidine 5'-monophospho-N-acetylneuraminic acid to terminal positions on sialylated glycolipids (gangliosides) or to the N- or O-linked sugar chains of glycoproteins. This protein has high specificity for neolactotetraosylceramide and neolactohexaosylceramide as glycolipid substrates and may contribute to the formation of selectin ligands and sialyl Lewis X, a carbohydrate important for cell-to-cell recognition and a blood group antigen. [provided by RefSeq, Apr 2016]