

Product datasheet for **RC236894**

ST3GAL6 (NM_001271142) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ST3GAL6 (NM_001271142) 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: >RC236894 representing NM_001271142
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGAGAACATCAGCGGAATATTTTCGACTTGCTCTTTCAAACCTGCAGAGTTGTGATCTCTTTGATGAGT
TTGACAACATACCCTGTAAAAAGTGTGTGGTGGTTGGTAATGGAGGAGTTTTGAAGAATAAGACATTAGG
AGAAAAATCGACTCCTATGATGTAATAATAAGAATGAATAATGGTCCTGTTTTAGGACATGAAGAAGAA
GTTGGGAGAAGGACAACCTTCGACTTTTTATCCAGAATCTGTTTTTTCAGATCCTATTCACAATGACC
CTAATACGACAGTGATTCTCACTGCTTTTAAGCCACATGATTTAAGGTGGCTGTTGGAATTGTTGATGGG
TGACAAAATAAACACTAATGGTTTTTGGGAAGAAACCAGCCTTAAACCTGATTTATAAACCTTATCAAATC
CGAATATTAGATCCTTTTCATTATCAGAACAGCAGCTTATGAACTGCTTCATTTTCCAAAAGTGTTCCTCA
AAAATCAGAAACCTAACACCCAACAACAGGAATTATTGCCATCACATTGGCGTTTTACATATGTCACGA
AGTTCACCTAGCTGGTTTTAAATACAACCTTTCTGACCTCAAGAGTCCTTTCCTACTACTATGGGAATGCC
ACCATGTCTTTGATGAATAAGAACGCGTATCACAATGTGACTGCAGAGCAGCTCTTTTTGAAGGACATTA
TAGAAAAAACCTCGTAATCAACTTGACTCAAGAT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTAA



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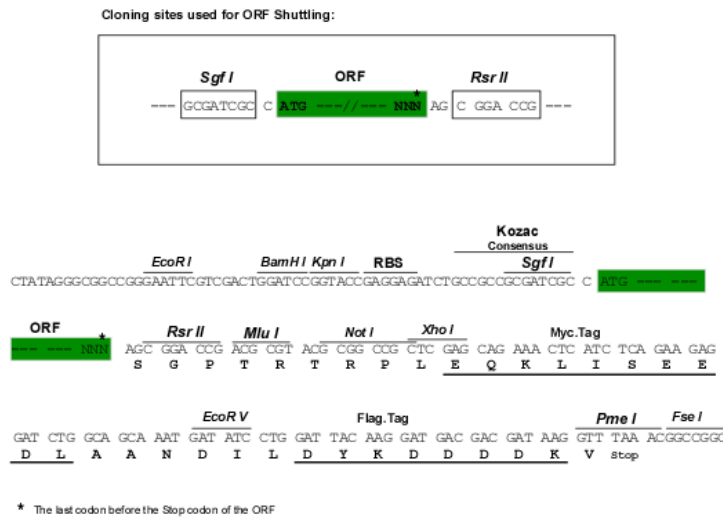
Protein Sequence: >RC236894 representing NM_001271142
Red=Cloning site Green=Tags(s)

MRTSAEYFRLALSKLQSCDLFDEFDNPCKKCVVVGNGGVLKNKTLGEKIDSVDVIIRMNNGPVLGHEEE
 VGRRTTFRLFYPESVFSDFIHNPNNTTIVILTAFKPHDLRWLELLMGDKINTNGFWKKPALNLIYKPYQI
 RILDPIIIRTAAYELLHFPKVPKNQPKHPTTGIIAITLAFYICHEVHLAGFKYNFSDLKSPHYHGNA
 TMSLMNKNAYHNVTAEQLFLKDIIEKNLVINLTQD

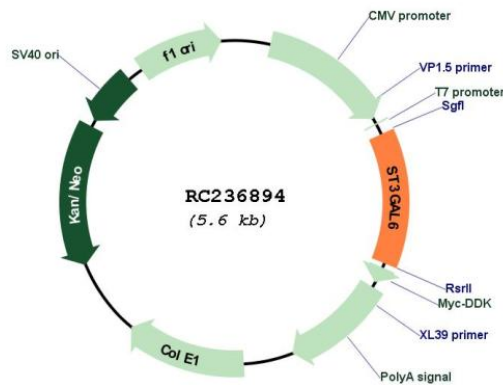
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271142

ORF Size: 735 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_001271142.1 , NP_001258071.1
RefSeq Size:	3458 bp
RefSeq ORF:	738 bp
Locus ID:	10402
Cytogenetics:	3q12.1
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
MW:	28.7 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]