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Product datasheet for RG232500

ST3GAL6 (NM_001271146) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL6 (NM_001271146) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST3GAL6
Synonyms:	SIAT10; ST3GALVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG232500 representing NM_001271146
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGGGTATCTTGTGGCCATATTCCTGAGTGCTGTCTTCCTCTATTATGTACTGCATTGCATATTAT
GGGGAACGAATGTCTATTGGGTGGCACCTGTGGAAATGAAACGGAGAAATAAGATCCAGCCTTGTTTATC
AAAGCCAGCTTTTGCCTCTCTGCTGAGGTTTCATCAGTTTCACCCTTTTCTGTGTGCGGCTGATTTTAGA
AAGATTGCTTCCTTGTATGGTAGCGATAAGTTTGATTTGCCCTATGGGATGAGAACATCAGCGGAATATT
TTCGACTTGCTCTTTCAAAACTGCAGAGTTGTGATCTCTTTGATGAGTTTGACAACATACCCTGTAAAAA
GTGTGTGGTGGTTGGTAATGGAGGAGTTTTGAAGAATAAGACATTAGGAGAAAAAATCGACTCCTATGAT
GTAATAATAAGAATGAATAATGGTCCTGTTTTAGGACATGAAGAAGAAGTTGGGAGAAGGACAACCTTCC
GACTTTTTTATCCAGAATCTGTTTTTTCAGATCCTATTCACAATGACCCTAATACGACAGTGATTCTCAC
TGCTTTTAAGCCACATGATTTAAGGTGGCTGTTGGAATTGTTGATGGGTGACAAAATAAACACTAATGGT
TTTTGGAAGAAACCAGCCTTAAACCTGATTTATAAACCTTATCAAATCCGAATATTAGATCCTTTCATTA
TCAGAACAGCAGCTTATGAACTGCTTCATTTTCCAAAAGTGTTTCCCAAAAATCAGAAACCTAAACACCC
AACAACAGGAATTATTGCCATCACATTGGCGTTTTACATATGTCACGAAGTTCACCTAGCTGGTTTTAAA
TACAACTTTTCTGACCTCAAGAGTCCTTTGCACTACTATGGGAATGCCACCATGTCTTTGATGAATAAGA
ACGCGTATCACAATGTGACTGCAGAGCAGCTCTTTTTGAAGGACATTATAGAAAAAAACCTCGTAATCAA
CTTGACTCAAGAT

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

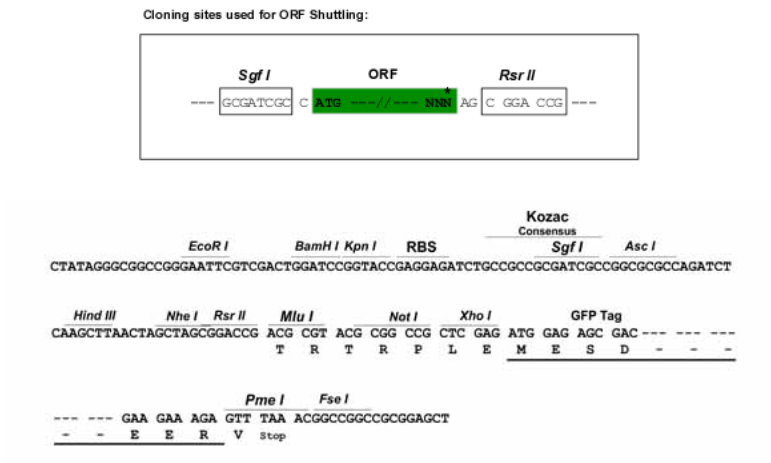
>RG232500 representing NM_001271146
Red=Cloning site Green=Tags(s)

MRGYLVAIFLSAVFLYYVLHCILWGTNVYWVAPVEMKRRNKIQPCLSKPAFASLLRFHQFHPFLCAADFR
KIASLYGSDKFDLPYGMRTSAEYFRLALSKLQSCDLFDEFDNIPCKKCVVVGNGGVLKNKTLGEKIDSYD
VIIRMNNGPVLGHEEEVGRRTTFRLFYPESVFSDPIHNDPNTTVILTAFKPHDLRWLLELLMGDKINTNG
FWKKPALNLIYKPYQIRILDPFIIRTAAYELLHFPKVFPKNQKPKHPTTGIIAITLAFYICHEVHLAGFK
YNFSDLKSPLHYYGNATMSLMNKNAYHNVTAEQLFLKDIIEKNLVINLTQD

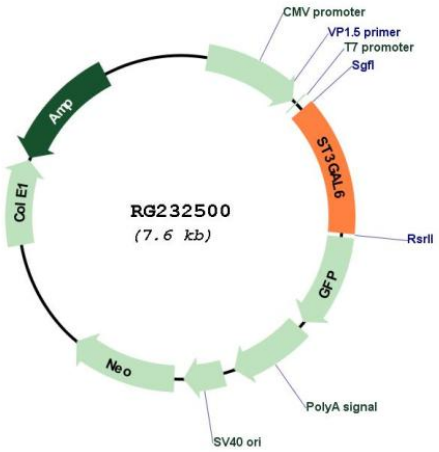
SGPTRTRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271146

ORF Size: 993 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_001271146.1, NP_001258075.1
RefSeq Size:	3388 bp
RefSeq ORF:	996 bp
Locus ID:	10402
UniProt ID:	Q9Y274
Cytogenetics:	3q12.1
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
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]