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Product datasheet for RG232502

ST3GAL4 (NM_001254759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL4 (NM_001254759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST3GAL4
Synonyms:	CGS23; gal-NAc6S; NANTA3; SAT3; SIAT4; SIAT4C; ST-4; ST3GalA.2; ST3GalIV; STZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG232502 representing NM_001254759
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGTCCTGCAGGCTGGAAGCTCCTGGCCATGTTGGCTCTGGTCCTGGTCGTCATGGTGTGGTATTCCA
TCTCCCGGGAAGACAGGTACATCGAGCTTTTTTATTTTCCCATCCCAGAGAAGAAGGAGCCGTGCCTCCA
GGGTGAGGCAGAGAGCAAGGCCTCTAAGCTCTTTGGCAACTACTCCCGGGATCAGCCCATCTTCCTGCGG
CTTGAGGATTATTTCTGGGTCAAGACGCCATCTGCTTACGAGCTGCCCTATGGGACCAAGGGGAGTGAGG
ATCTGCTCCTCCGGGTGCTAGCCATCACCAGCTCCTCCATCCCCAAGAACATCCAGAGCCTCAGGTGCCG
CCGCTGTGTGGTCGTGGGGAACGGGCACCGGCTGCGGAACAGCTCACTGGGAGATGCCATCAACAAGTAC
GATGTGGTCATCAGATTGAACAATGCCCCAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACCACCA
TGCGTCTCTTCTACCCTGAATCTGCCCACTTCGACCCCAAAGTAGAAAACAACCCAGACACACTCCTCGT
CCTGGTAGCTTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTGCGA
AAGGGTTTCTGGAAACAGCCTCCCCTCATCTGGGATGTCAATCCTAAACAGATTCGGATTCTCAACCCCT
TCTTCATGGAGATTGCAGCTGACAAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCAGAA
GCCCACCACGGGCCTGTTGGCCATCACGCTGGCCCTCCACCTCTGTGACTTGGTGCACATTGCCGGCTTT
GGCTACCCAGACGCCTACAACAAGAAGCAGACCATTCACTACTATGAGCAGATCACGCTCAAGTCCATGG
CGGGGTCAGGCCATAATGTCTCCCAAGAGGCCCTGGCCATTAAGCGGATGCTGGAGATGGGAGCTATCAA
GAACCTCACGTCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

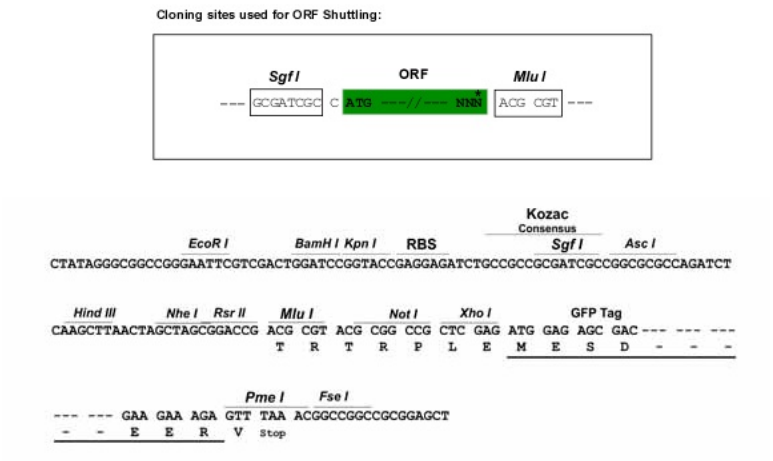
>RG232502 representing NM_001254759
Red=Cloning site Green=Tags(s)

MCPAGWKLLAMLALVLVVMVWYSISREDRYIELFYFPIPEKKEPCLQGEAESKASKLFGNYSRDQPIFLR
LEDYFWVKTPSAYELPYGTKGSEDLLLRVLAITSSSIPKNIQSLRCRRCVVVGNGHRLRNSSLGDAINKY
DVVIRLNNAPVAGYEGDVGSKTTMRLFYPESAHFDPKVENNPDTLLVLVAFKAMDFHWIETILSDKKRVR
KGFWKQPPLIWDVNPKQIRILNPFFMEIAADKLLSLPMQQPRKIKQKPTTGLLAITLALHLCDLVHIAGF
GYPDAYNKKQTIHYYEQITLKSMAGSGHNVSQEALAIKRMLEMGAIKNLTSF

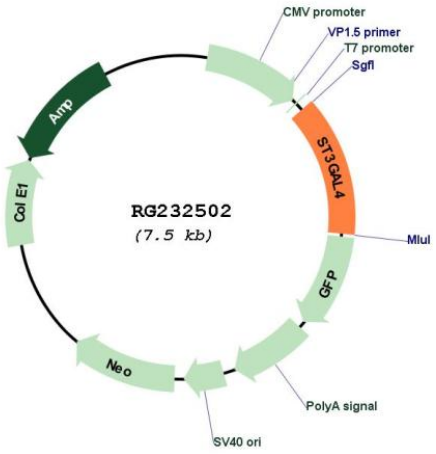
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001254759

ORF Size: 996 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_001254759.2
RefSeq Size:	1871 bp
RefSeq ORF:	999 bp
Locus ID:	6484
UniProt ID:	Q11206
Cytogenetics:	11q24.2
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
Gene Summary:	This gene encodes a member of the glycosyltransferase 29 family, a group of enzymes involved in protein glycosylation. The encoded protein is targeted to Golgi membranes but may be proteolytically processed and secreted. The gene product may also be involved in the increased expression of sialyl Lewis X antigen seen in inflammatory responses. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]