

## Product datasheet for **RG232505**

### ST3GAL4 (NM\_001254758) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL4 (NM_001254758) 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:	>RG232505 representing NM_001254758 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCAGCAAGTCCCGCTGGAAGCTCCTGGCCATGTTGGCTCTGGTCTGGTCGTCATGGTGTGGTATT  
CCATCTCCCGGAAGACAGGTACATCGAGCTTTTTTATTTCCCATCCAGAGAAGAAGGAGCCGTGCCT  
CCAGGGTGAGGCAGAGCAAGGCCTCTAAGCTCTTTGGCACTACTCCCGGGATCAGCCCATCTTCCTG  
CGGCTTGAGGATTATTTCTGGTCAAGACGCCATCTGCTTACGAGCTGCCCTATGGGACCAAGGGGAGTG  
AGGATCTGCTCCTCCGGTGCTAGCCATCACCAGCTCCTCCATCCCAAGAACATCCAGAGCCTCAGGTG  
CCGCCGCTGTGTGGTCTGGGGAACGGGACCGGCTGCGGAACAGCTCACTGGGAGATGCCATCAACAAG  
TACGATGTGGTCATCAGATTGAACAATGCCCAAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACCA  
CCATGCGTCTCTTACCTGAATCTGCCCACTTCGACCCAAAGTAGAAAAACAACCCAGACACTCCT  
CGTCTGGTAGCTTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTG  
CGAAAGGGTTTCTGAAACAGCTCCCTCATCTGGGATGTCAATCCTAAACAGATTTCGATTCTCAACC  
CCTTCTCATGGAGATTGCAGCTGACAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCA  
GAAGCCACACGGGCTGTTGGCCATCACGCTGGCCCTCCACCTCTGTGACTTGGTGCACATTGCCGGC  
TTTGGCTACCCAGACGCTACAACAAGAAGCAGACCATTCACTACTATGAGCAGATCACGCTCAAGTCCA  
TGGCGGGTCAGGCCATAATGTCTCCCAAGAGGCCCTGGCCATTAAGCGGATGCTGGAGATGGGAGCTAT  
CAAGAACCTCACGTCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232505 representing NM\_001254758  
 Red=Cloning site Green=Tags(s)

MVSKSRWKL LAMLALVLVVMVWYSISREDRYIELFYFPIPEKKEPCLQGEAESKASKLFGNYSRDQPIFL  
 RLEDYFVWKTPSAYELPYGKSGEDLLLRVLAITSSSIPKNIQSLRCRRCVVVGNHRLRNSSLGDAINK  
 YDVVIRLNNAPVAGYEGDVGSKTTMRLFYPESAHFDPKVENNPDTLLVLVAFKAMDFHWIETILSDKKRV  
 RKGFWKQPPLIWDVNPQIRILNPFMEIAADKLLSLPMQQPRKIKQKPTTGLLAITLALHLCDLVHIAG  
 FGYPDAYNKKQTIHYEQITLKS MAGSGHNVSQEALAIKRMLEMGAIKNLT SF

TRTRPLE - GFP Tag - V

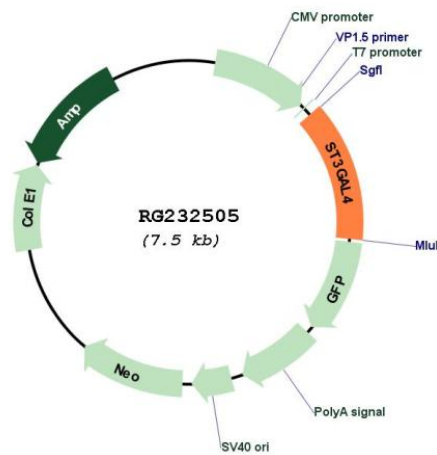
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001254758

**ORF Size:** 999 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001254758.1</a> , <a href="#">NP_001241687.1</a>
<b>RefSeq Size:</b>	1727 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	6484
<b>UniProt ID:</b>	<a href="#">Q11206</a>
<b>Cytogenetics:</b>	11q24.2
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
<b>Gene Summary:</b>	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]