

Product datasheet for **RG232504**

ST3GAL4 (NM_001254757) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL4 (NM_001254757) 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:	>RG232504 representing NM_001254757 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCAGCAAGTCCCGCTGGAAGCTCCTGGCCATGTTGGCTCTGGTCTGGTCGTCATGGTGTGGTATT
CCATCTCCCGGAAGACAGGTACATCGAGCTTTTTTATTTCCCATCCCAGAGAAGAAGGAGCCGTGCCT
CCAGGGTGAGGCAGAGCAAGGCCTCTAAGCTCTTTGGCACTACTCCCGGGATCAGCCCATCTTCCTG
CGGCTTGAGGATTATTTCTGGTCAAGACGCCATCTGCTTACGAGCTGCCCTATGGGACCAAGGGGAGTG
AGGATCTGCTCCTCCGGTGCTAGCCATCACCAGCTCCTCCATCCCAAGAACATCCAGAGCCTCAGGTG
CCGCCGCTGTGTGGTCTGGGGAACGGGACCCGGCTGCGGAACAGCTCACTGGGAGATGCCATCAACAAG
TACGATGTGGTCATCAGATTGAACAATGCCCAAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACCA
CCATGCGTCTCTTACCTGAATCTGCCCACTTCGACCCAAAGTAGAAAAACAACCCAGACACTCCT
CGTCTGGTAGCTTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTG
CGAAAGGGTTTCTGAAACAGCCTCCCTCATCTGGGATGTCAATCCTAAACAGATTCCGATTCTCAACC
CCTTCTCATGGAGATTGCAGCTGACAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCA
GAAGCCACCACGGGCTGTTGGCCATCACGCTGGCCCTCCACCTCTGTGACTTGGTGCACATTGCCGGC
TTTGGCTACCCAGACGCCTACAACAAGAAGCAGACCATTCACTACTATGAGCAGATCACGCTCAAGTCCA
TGGCGGGTCAGGCCATAATGTCTCCCAAGAGGCCCTGGCCATTAAGCGGATGCTGGAGATGGGAGCTAT
CAAGAACCTCACGTCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232504 representing NM_001254757
 Red=Cloning site Green=Tags(s)

MVSKSRWKL LAMLALVLVVMVWYSISREDRYIELFYFPIPEKKEPCLQGEAESKASKLFGNYSRDQPIFL
 RLEDYFVWKTPSAYELPYGKSGEDLLLRVLAITSSSIPKNIQSLRCRRCVVVGNGHRLRNSSLGDAINK
 YDVVIRLNNAPVAGYEGDVGSKTTMRLFYPESAHFDPKVENNPDLLVLVAFKAMDFHWIETILSDKKRV
 RKGFWKQPPLIWDVNPQIRILNPFMEIAADKLLSLPMQQPRKIKQKPTTGLLAITLALHLCDLVHIAG
 FGYPDAYNKKQTIHYEQITLKS MAGSGHNVSQEALAIKRMLEMGAIKNLT SF

TRTRPLE - GFP Tag - V

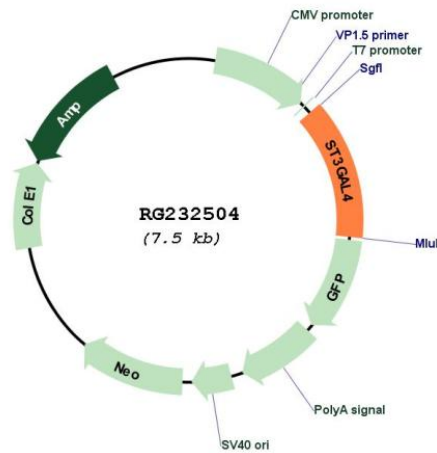
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001254757

ORF Size: 999 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_001254757.2
RefSeq Size:	1854 bp
RefSeq ORF:	1002 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]