

Product datasheet for **RG211663**

ST3GAL5 (NM_001042437) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ST3GAL5 (NM_001042437) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ST3GAL5 |
| Synonyms: | SATI; SIAT9; SIATGM3S; SPDRS; ST3Gal V; ST3GalV |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG211663 representing NM_001042437 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCTGTTCCAATGCCAAGTGAGTACACCTATGTGAACTGAGAAGTGATTGCTCGAGGCCTTCCC
TGCAATGGTACACCCGAGCTCAAAGCAAGATGAGAAGGCCAGCTTGTTATTAAGACATCCTCAAATG
TACATTGCTTGTGTTGGAGTGTGGATCCTTTATATCCTCAAGTTAAATTATACTACTGAAGAATGTGAC
ATGAAAAAATGCATTATGTGGACCCTGACCATGTAAGAGAGCTCAGAAATATGCTCAGCAAGTCTTG
AGAAGGAATGTCGTCCTCAAGTTTGCCAAGACATCAATGGCGCTGTTATTTGAGCACAGGTATAGCGTGGA
CTTACTCCCTTTTGTGCAGAAGGCCCCAAAGACAGTGAAGCTGAGTCCAAGTACGATCCCTTTTGGG
TTCCGGAAGTTCTCCAGTAAAGTCCAGACCCTCTTGGAACCTTGCCAGAGCACGACCTCCCTGAACACT
TGAAAGCCAAGACCTGTGCGCGCTGTGTGGTATTGGAAGCGGAGGAATACTGCACGGATTAGAAGTGGG
CCACACCTGAACCAGTTCGATGTTGTGATAAGGTTAAACAGTGCACCAGTTGAGGGATATTCAGAACAT
GTTGAAATAAACTACTATAAGGATGACTTATCCAGAGGGCGCACCACTGTCTGACCTTGAATATTATT
CCAATGACTTATTTGTTGCTGTTTTATTTAAGAGTGTGATTTCAACTGGCTTCAAGCAATGGTAAAAA
GGAAACCTGCCATTCTGGGTACGACTCTCTTTTGAAGCAGGTGCGAGAAAAAATCCCCTGCAGCCA
AAACATTTCAAGATTTTGAATCCAGTTATCATCAAAGAGACTGCCTTTGACATCCTTCAGTACTCAGAGC
CTCAGTCAAGTTCTGGGCGGAGATAAGAACGTCACCAATCGGTGTCATTGCCGTTGTCTTAGCCAC
ACATCTGTGCGATGAAGTCAAGTTGGCGGGTTTTGGATATGACCTCAATCAACCCAGAACACCTTTGCAC
TACTTCGACAGTCAATGCATGGCTGCTATGAACCTTCAGACCATGCATAATGTGACAACGGAAACCAAGT
TCCTCTTAAAGCTGGTCAAAGAGGGAGTGGTGAAGATCTCAGTGGAGGCATTGATCGTGAATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211663 representing NM_001042437
 Red=Cloning site Green=Tags(s)

MASVPMPESEYTYVKLRSDCSRSLQWYTRAQSKMRPRLKLDILKCTLLVFGVWILYILKLNYYTEECD
 MKKMHYVDPDHVKRAQKYAQVQLQKECRPKFAKTSMAALLFEHRYSDLLPFVQKAPKDSEAEKYDPPFG
 FRKFSSKVQTLLELLPEHDLPEHLKAKTCRRCVVI GSGGILHGLELGH TLNQFDVVIRLNSAPVEGYSEH
 VGNKTTIRMTYPEGAPLSDLEYYSNDLFVAVLFKSVDFNWLQAMVKKETLPFWVRLFFWKQVAEKIPLQP
 KHFRILNPVIIKETAFDILQYSEPSRFWGRDKNVPTIGVIAVVLATHLCDEVS LAGFGYDLNQPRTPHL
 YFDSQCMAAMNFQTMHNVTETKFLKL VKEGVVKDLSSGIDREF

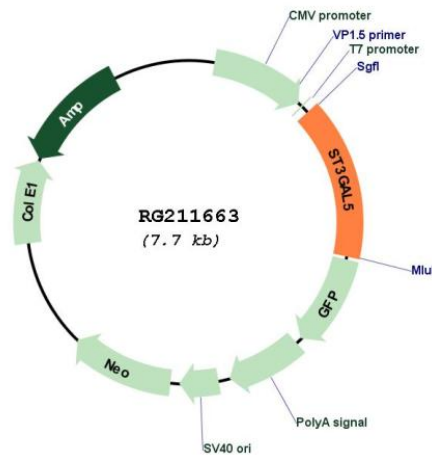
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001042437

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| ORF Size: | 1185 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_001042437.2 |
| RefSeq Size: | 2262 bp |
| RefSeq ORF: | 1188 bp |
| Locus ID: | 8869 |
| UniProt ID: | Q9UNP4 |
| Cytogenetics: | 2p11.2 |
| Protein Families: | Transmembrane |
| Protein Pathways: | Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways |
| Gene Summary: | Ganglioside GM3 is known to participate in the induction of cell differentiation, modulation of cell proliferation, maintenance of fibroblast morphology, signal transduction, and integrin-mediated cell adhesion. The protein encoded by this gene is a type II membrane protein which catalyzes the formation of GM3 using lactosylceramide as the substrate. The encoded protein is a member of glycosyltransferase family 29 and may be localized to the Golgi apparatus. Mutation in this gene has been associated with Amish infantile epilepsy syndrome. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |