

## Product datasheet for **MG222664**

### St3gal5 (NM\_011375) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal5 (NM_011375) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St3gal5
Synonyms:	3S-T; Siat9; [a]2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222664 representing NM_011375 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAAGTGAGTTCACCTCTGCAAAGCTGAGAAGTGATTGCTCAAGGACCTCCCTGCAATGGTACACCC  
GAACCCAGCACAAAGATGAGAAGACCCAGCTTGTTAATAAAAGACATCTGCAAGTGCACGTTGGTTGCATT  
TGGAGTCTGGCTCCTGTACATCCTCATTGTTGAATTACACCGCTGAAGAATGTGACATGAAAAGAATGCAC  
TATGTGGACCCTGACCGATAAAGAGAGCTCAGAGCTATGCTCAGGAAGTCTGCAGAAGGAATGTCGGC  
CCAGGTACGCGAAGACGGCTATGGCTCTGTTATTTGAGGACAGGTACAGCATCAACTTGGAGCCTTTTGT  
GCAGAAGTCCCCACGGCAGTGAAGCTGAGCTCAAGTATGACCCGCCTTTTGGATTCCGGAAAGTCTCC  
AGTAAAGTCCAGAGCCTCTTGGATATGCTGCCCGAACATGACTTTCTGAACACTTGAGAGCCAAGGCCCT  
GCAAGCGCTGTGTGGTTGTTGGGAACGGGGCATCCTGCACGGACTAGAGCTGGGTACGCCCCTCAACCA  
GTTTCGATGTGGTAATAAGGTTGAACAGTGCAGTTCAGGGTTACTCTGAACACGTTGGGAATAAACT  
ACTATAAGGATGACTTACCCAGAGGGTGCAGTTCGCGACTGTCGACGTTGAATACTACGCCAATGATTTGTTCC  
TACTGTTTTATTTAAGAGTGTGATTTCAAGTGGCTCAAGCAATGGTAAAAATGAAAGCCTGCCCTT  
TTGGTTTCGCCTCTCTTTTGAAGCAAGTGGCAGAAAAAGTCCCACTCCAGCCAAGCACTTCAGGATT  
TTGAACCCAGTTATCATCAAAGAACTGCCTTCGACATCCTTCAGTACTCAGAGCCTCAGTCAAGATTCT  
GGGGCCATGATAAGAACATCCCCACGATCGGCGTCATTGCCGTTGTCTTGGCTACACATCTGTGTGATGA  
AGTCAGCCTGGCAGGCTTTGGCTACGACCTCAGTCAACCCAGGACCCCTCTGCACTACTTTGACAGTCAG  
TGCATGGGCGCCATGCACTGGCAGGTCATGCACAAATGTGACCACAGAGACCAAGTTCCTCCTGAAGCTCC  
TCAAGGAGGGCGTGGTGGAGGACCTCAGCGGCGGCATCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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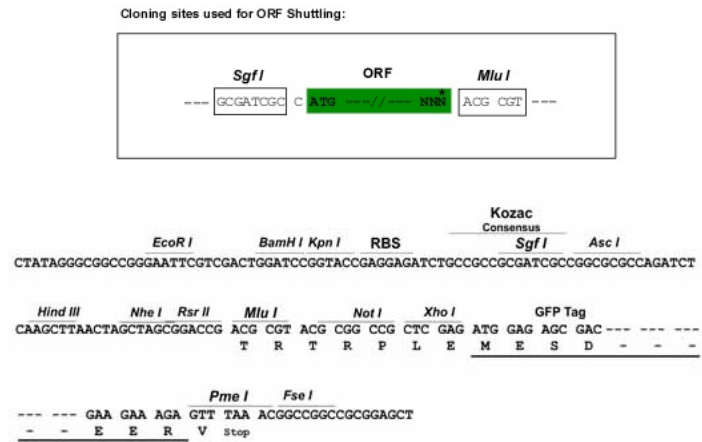
**Protein Sequence:** >MG222664 representing NM\_011375  
 Red=Cloning site Green=Tags(s)

MPSEFTSAKLRSDCSRTSLQWYTRTQHKMRRPSLLIKDICKCTLVAFGVWLLYILILNYTAEEDMKRMH  
 YVDPDRIKRAQSYAQEVLQKECRPRYAKTAMALLFEDRYSINLEPFVQKVPTASEAELKYDPPFGFRKFS  
 SKVQSLDMLPEHDFPEHLRAKACKRCVVVGNNGGILHGLELGHALNQFDVVIRLNSAPVEGYSEHVGNKT  
 TIRMTYPEGAPLSDVEYYANDLFVTVLFSVDFKWLQAMVKNESLPFWRLFFWKQVAEKVPLQPKHFRI  
 LNPVIIKETAFDILQYSEPPQSRFWGHDKNIPTIGVIAVVLATHLCDEVSLAGFGYDLSQPRTPLHYFDSQ  
 CMGAMHWQVMHNVTETKFLLLKLLKEGVVEDLSGGIH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011375

**ORF Size:** 1161 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\\_011375.3](#), [NP\\_035505.2](#)

**RefSeq Size:** 2448 bp

**RefSeq ORF:** 1164 bp

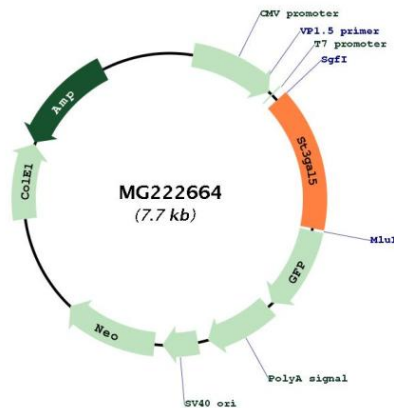
**Locus ID:** 20454

**UniProt ID:** [O88829](#)

**Cytogenetics:** 6 C1

**Gene Summary:** Catalyzes the formation of ganglioside GM3 (alpha-N-acetylneuraminy-2,3-beta-D-galactosyl-1, 4-beta-D-glucosylceramide), which is a precursor for most of the complex ganglioside species.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG222664