

Product datasheet for **MG222666**

St3gal5 (NM_001035228) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal5 (NM_001035228) 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:	>MG222666 representing NM_001035228 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACACAGAGGCGGTGGGCGGCGGGCGGAGGCCCCAGAAGCTGCGAAGCCAAGCAGCGGCACCTG
CCTGCCGAGCAATGCCAAGTGAGTTCACCTCTGCAAAGCTGAGAAGTGATTGCTCAAGGACCTCCCTGCA
ATGGTACACCCGAACCCAGCACAAAGATGAGAAGACCCAGCTTGTAAATAAAGACATCTGCAAGTGACG
TTGGTTGCATTTGGAGTCTGGCTCCTGTACATCCTCATTTGAATTACACCGCTGAAGAATGTGACATGA
AAAGAATGCACTATGTGGACCCTGACCGGATAAAGAGAGCTCAGAGCTATGCTCAGGAAGTCTTGACAGAA
GGAATGCCGCGCCAGGTACGCGAAGACGGCTATGGCTCTGTTATTTGAGGACAGGTACAGCATCAACTTG
GAGCCTTTTGTGCAAGAAGTCCCCACGGCCAGTGAAGCTGAGCTCAAGTATGACCCGCTTTTGGATTCC
GGAAGTTCTCCAGTAAAGTCCAGAGCCTCTTGGATATGCTGCCCGAACATGACTTTCCTGAACACTTGAG
AGCCAAGGCTGCAAGCGCTGTGTGGTGTGGGAACGGGGGCATCCTGCACGGACTAGAGCTGGGTAC
GCCCTCAACCAAGTTCGATGTGGTAATAAGGTTGAACAGTGCGCCAGTTGAGGGTTACTCTGAACACGTTG
GGAATAAACTACTATAAGGATGACTTACCCAGAGGGTGCGCCACTGTGCGACGTTGAATACTACGCCAA
TGATTTGTTCTGTTACTGTTTTATTTAAGAGTGTGATTTCAAGTGGCTTCAAGCAATGGTAAAAAATGAA
AGCCTGCCCTTTGGGTTTCGCTCTTTTGGAAAGCAAGTGGCAGAAAAAGTCCACTCCAGCCAAAGC
ACTTCAGGATTTTGAACCCAGTTATCATCAAAGAACTGCCTTCGACATCCTTCAGTACTCAGAGCCTCA
GTCAAGATTCTGGGGCCATGATAAGAACATCCCCACGATCGGCGTCATTGCCGTTGTCTTGCTACACAT
CTGTGTGATGAAGTCAGCCTGGCAGGCTTTGGCTACGACCTCAGTCAACCCAGGACCCCTCTGCACTACT
TTGACAGTCAGTGCATGGGCGCCATGCACTGGCAGGTCATGCACAATGTGACCACAGAGACCAAGTTCCT
CCTGAAGTCTCCTCAAGGAGGGCGTGGTGGAGGACCTCAGCGGCGGCATCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222666 representing NM_001035228
 Red=Cloning site Green=Tags(s)

MHTEAVGGAARRPQKLRSQAAAPACRAMPSEFTSAKLRSDCSRTSLQWYTRTQHKMRPSELLIKDICKCT
 LVAFGVWLLYILILNYTAEECDMKRMHYVDPDRIKRAQSYAQEVLQKECRPRYAKTAMALLFEDRYSINL
 EPFVQKVPTASEAELKYDPPFGFRKFSSKVQSLDMLPEHDFPEHLRAKACKRCVVVGNNGGILHGLELGH
 ALNQFDVVIRLNSAPVEGYSEHVGNKTTIRMTYPEGAPLSDVEYYANDLFVTVLFKSVDFKWLQAMVKNE
 SLPFVWRLFFWKQVAEKVPLQPKHFRILNPVVIKETAFDILQYSEPQSRFWGHDKNIPTIGVIAVVLATH
 LCDEVSLAGFGYDLSQPRTPLHYFDSQCMGAMHWQVMHNVTETKFLKLLKEGVVEDLSGGIH

TRTRPLE - GFP Tag - V

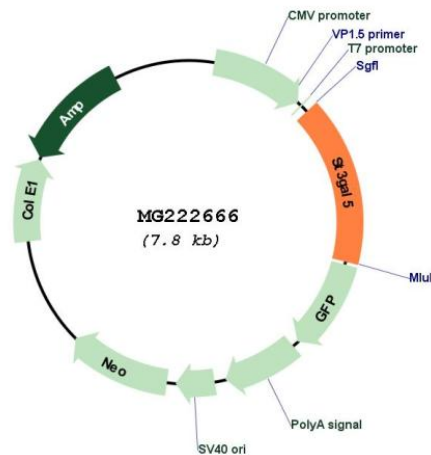
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001035228

ORF Size:	1242 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_001035228.1 , NP_001030305.1
RefSeq Size:	2236 bp
RefSeq ORF:	1245 bp
Locus ID:	20454
UniProt ID:	O88829
Cytogenetics:	6 C1
Gene Summary:	Catalyzes the formation of ganglioside GM3 (alpha-N-acetylneuraminyl-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]