

Product datasheet for **MG222827**

St3gal3 (NM_009176) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal3 (NM_009176) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St3gal3
Synonyms:	Siat3; Siat6; ST3GalIII; ST3N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222827 representing NM_009176 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCTTCTGGTCTGGGATTTTGT
ATTATTCTGCCTGGAAGCTACACTTACTCCAATGGGAAGACTCCAATTCATTGCTCTTTCCCTTGACTC
CGCTGGACAAACCCTAGGCACAGAGTATGATAGGCTGGGCTTCTCCTGAAGCTGGACTCTAACTGCCT
GCCGAGCTAGCCACCAAGTACGCAAACCTTTCCGAGGGAGCTTCAAACCCGGCTACGCTTCAGCTATGA
TGACTGCCATCTCCCCAGGTTCTCCAAGCCAGCACCCATGTTTCTGGATGACTCCTTTGCAAGTGGGC
TAGGATCCGGGAGTTTGTGCCACCTTTTGGGATCAAAGGTCAAGACAATCTGATCAAAGCCATCTTGTC
GTCACCAAAGAATACCGCTGACCCCTGCCTTGGACAGCCTCCACTGCCGCCGCTGCATCATTGTAGGCA
ATGGAGGGGTCTCGCCAACAAGTCTCTGGGGTACCGATTGACGACTATGACATTGTGATCAGACTGAA
CTCAGCACCTGTGAAGGGCTTTGAGAGGGACGTGGGCAGCAAGACCCTACGCATCACCTACCCTGAG
GGGCCATGCAGCGACCTGAGCAATATGAACGAGACTCTCTTTGTCTCGTGGCTTCAAGTGGCAGG
ACTTCAAGTGGCTGAAGTACATCGTCTACAAGGAGAGAGTGAGTGCATCTGATGGCTTCTGGAAGTCCGT
GGCCACCCGAGTGCCCAAGGAGCCCCCTGAGATCCGCATCCTCAACCCATACTTCATCCAGGAGGCTGCC
TTCACTCTATTGGACTGCCCTTCAACAACGGCCTCATGGGCAGAGGGAACATCCCAACCCCTTGGCAGT
TGGCAGTGACCATGGCACTACACGGCTGTGATGAAGTGGCAGTCCGCGGGCTTTGGCTATGACATGAAC
ACCCAATGCACCCCTGCACTACTATGAACTGTGCGCATGGCAGCCATCAAAGAGTCTGGACACACAAC
ATCCAGCGAGAGAAAGAGTTTCTGCGGAAGCTAGTGAAGGCACGTGCATCACTGACTTAAGCAGCGGTA
TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222827 representing NM_009176
 Red=Cloning site Green=Tags(s)

MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEDSNLLLLSLDSAGQTLGTEYDRLGFLKLDKLP
 AELATKYANFSEGACKPGYASAMMTAIFPRFSKPAPMFLDSDFRKWARIREFVPPFGIKGQDNLKAILS
 VTKEYRLTPALDSLHCRRCIIVNGGVLANKSLGSRIDYDIVIRLNSAPVKGFERDVGSKTTLRITYPE
 GAMQRPEQYERDSLFLAGFKWQDFKWLKYIVYKERVASDGFVKSVATRVPKPEPEIRILNPFYIQEAA
 FTLLIGLPFNGLMGRGNIPTLGSVAVTMALHGCDVAVAGFGYDMNTPNAPLHYYETVRMAAIKESWTHN
 IQREKEFLRKLVKARVITDLSSGI

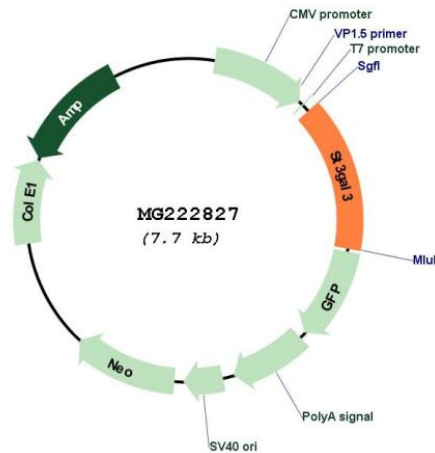
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009176

ORF Size:	1122 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_009176.4 , NP_033202.3
RefSeq Size:	2568 bp
RefSeq ORF:	1125 bp
Locus ID:	20441
UniProt ID:	P97325
Cytogenetics:	4 D1- D2.1
Gene Summary:	Catalyzes the formation of the NeuAc-alpha-2,3-Gal-beta-1,4-GlcNAc-, NeuAc-alpha-2,3-Gal-beta-1,3-GlcNAc- and NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc- sequences found in terminal carbohydrate groups of glycoproteins and glycolipids. The highest activity is toward Gal-beta-1,3-GlcNAc and the lowest toward Gal-beta-1,3-GalNAc.[UniProtKB/Swiss-Prot Function]