

Product datasheet for **MG204917**

St3gal4 (NM_009178) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal4 (NM_009178) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St3gal4
Synonyms:	SIAT4-C; Siat4c; ST3Gal IV; ST3GalIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204917 representing NM_009178 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCAGCAAATCTCACTGGAAGCTCCTGGCCCTGGCTCTGGTCTTGTGTTGTCATGGTGTGGTATT
CCATCTCCCGAGAAGATAGGTACATTGAGTTCTTTATTTTCCCATCTCAGAGAAGAAAGAGCCATGCTT
CCAGGGTGAGGCAGAGAGACAGGCCTCTAAGATTTTGGCAACCGTTCTAGGGACCAGCCATCTTTCTG
CAGCTTAAGGATTATTTCTGGGTAAGACGCCATCCACCTATGAGCTGCCCTTTGGGACTAAAGGAAGTG
AAGACCTTCTTCCGGGTGCTGGCCATCACTAGCTATTCTATACCTGAGAGCATAAAGAGCCTGGAGTG
TCGTGCTGTGTTGTGGTGGGAAATGGGCACCGGTTGCGGAACAGCTCGCTGGGCGGTGTCAACAAG
TACGACGTGGTCATCAGATTGAACAATGCTCCTGTGGCTGGCTACGAGGGAGATGTGGGCTCCAAGACCA
CCATACGTCTCTTCTATCCTGAGTCGGCCCACTTTGACCCATAAATAGAAAAACAACCCAGACACGCTCTT
GGTCTGGTAGCTTTCAAGGCGATGGACTTCCACTGGATTGAGACCATCTTGAGTGATAAGAAGCGGGTG
CGAAAAGGCTTCTGGAACAGCCTCCCTCATCTGGGATGTCAACCCAAACAGGTCCGGATTCTAAACC
CCTTCTTATGGAGATTGCAGCAGACAAGCTCCTGAGCCTGCCATACAACAGCCTCGAAAGATCAAGCA
GAAGCAACACGGGTCTGCTAGCCATCACCTTGGCTCTACACCTCTGCGACTTAGTGCACATTGCTGGC
TTTGGCTATCCAGATGCCTCCAACAAGAAGCAGACCATCCACTACTATGAACAGATCACACTTAAGTCTA
TGGCGGGATCAGGCCATAATGTCTCCCAAGAGGCTATCGCCATCAAGCGGATGCTAGAGATGGGAGCTGT
CAAGAACCTCACATACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204917 representing NM_009178
 Red=Cloning site Green=Tags(s)

MTSKSHWKLALALVLVVVMVWYSISREDRYIEFFYFPISEKKEPCFQGEAERQASKIFGNRSRDQPIFL
 QLKDYFWVKTPSTYELPFGTKGSEDLRLVLAITSYSIPESIKSLECRRCVVVGNHRLRNSSLGGVINK
 YDVVIRLNNAPVAGYEGDVGSKTTIRLFYPESAHFDPKIENNPDTLLVLVAFKAMDFHWIETILSDKKRV
 RKGFWKQPPLIWDVNPQVRILNPFMEIAADKLLSLPIQQPRKIKQKPTTGLLAITLALHLCDLVHIAG
 FGYPDASNKKQTIHYEQITLKS MAGSGHNVSQEAI AIKRMLEMGAVKNLTYF

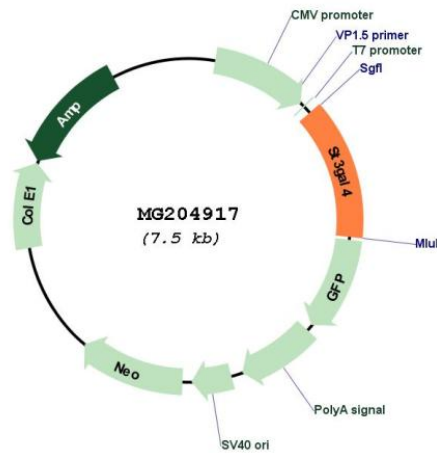
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009178

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_009178.2 , NP_033204.2
RefSeq Size:	2060 bp
RefSeq ORF:	1002 bp
Locus ID:	20443
UniProt ID:	Q91Y74
Cytogenetics:	9 A4
Gene Summary:	Catalyzes the formation of the NeuAc-alpha-2,3-Gal-beta-1,4-GlcNAc-, and NeuAc-alpha-2,3-Gal-beta-1,3-GlcNAc- sequences found in terminal carbohydrate groups of glycoproteins and glycolipids.[UniProtKB/Swiss-Prot Function]