

## Product datasheet for MR222827

### St3gal3 (NM\_009176) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | St3gal3 (NM_009176) Mouse Tagged ORF Clone                        |
| Tag:                      | Myc-DDK   |
| Symbol:                   | St3gal3   |
| Synonyms:                 | Siat3; Siat6; ST3GalIII; ST3N                                     |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR222827 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCTTCTGGTCTGGGATTTTGT  
ATTATTCTGCCTGGAAGCTACACTTACTCCAATGGGAAGACTCCAATTCATTGCTCTTTCCCTTGACTC  
CGCTGGACAAACCCTAGGCACAGAGTATGATAGGCTGGGCTTCTCCTGAAGCTGGACTCTAACTGCCT  
GCCGAGCTAGCCACCAAGTACGCAAACCTTTCCGAGGGAGCTTCAAACCCGGCTACGCTTCAGCTATGA  
TGACTGCCATCTCCCCAGGTTCTCCAAGCCAGCACCCATGTTCTGGATGACTCCTTTGCAAGTGGC  
TAGGATCCGGGAGTTTGTGCCACCTTTGGGATCAAAGGTCAAGACAATCTGATCAAAGCCATCTTGTC  
GTCACCAAAGAATACCGCTGACCCCTGCCTTGGACAGCCTCCACTGCCGCCGCTGCATCATTGTAGGCA  
ATGGAGGGGTCTCGCCAACAAGTCTCTGGGGTACCGATTGACGACTATGACATTGTGATCAGACTGAA  
CTCAGCACCTGTGAAGGGCTTTGAGAGGGACGTGGGCAGCAAGACCCTACGCATCACCTACCCTGAG  
GGCGCCATGCAGCGACCTGAGCAATATGAACGAGACTCTCTTTGTCTCGTGGCTTCAAGTGGCAGG  
ACTTCAAGTGGCTGAAGTACATCGTCTACAAGGAGAGAGTGAGTGCATCTGATGGCTTCTGGAAGTCCGT  
GGCCACCCGAGTGCCCAAGGAGCCCTGAGATCCGCATCCTCAACCCATACTTCATCCAGGAGGCTGCC  
TTCACTCTATTGGACTGCCCTTCAACAACGGCCTCATGGGCAGAGGGAACATCCAACCCCTTGGCAGT  
TGGCAGTGACCATGGCACTACAGGCTGTGATGAAGTGGCAGTCGCGGGCTTTGGCTATGACATGAACAC  
ACCCAATGCACCCCTGCACTACTATGAACTGTGCGCATGGCAGCCATCAAAGAGTCTGGACACACAAC  
ATCCAGCGAGAGAAAGAGTTTCTGCGGAAGCTAGTGAAGGCACGTGCATCACTGACTTAAGCAGCGGTA  
TC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222827 protein sequence  
Red=Cloning site Green=Tags(s)

MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEDSNLLLLSLDSAGQTLGTEYDRLGLLKLDSKLP  
 AELATKYANFSEGACKPGYASAMMTAIFPRFSKPAPMFLDSSFRKWARIREFVPPFGIKGQDNLKAILS  
 VTKEYRLTPALDSLHCRRCIIVNGGVLANKSLGSRIDYDIVIRLNSAPVKGFERDVGSKTTLRITYPE  
 GAMQRPEQYERDSLFLAGFKWQDFKWLKYIVYKERVASDGFWKSVAATRVPKPEPEIRILNPYFIQEA  
 FTLLIGLPFNGLMGRNIPTLGSVAVTMALHGCDVAVAGFGYDMNTPNAPLHYETVRMAAIKESWTHN  
 IQREKEFLRKLVKARVITDLSSGI

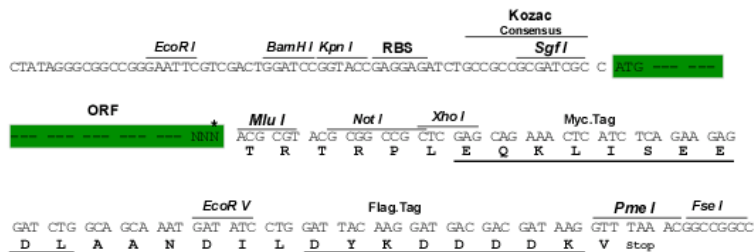
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009176

**ORF Size:** 1125 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\\_009176.1](#), [NM\\_009176.2](#), [NM\\_009176.3](#), [NM\\_009176.4](#), [NM\\_009176.5](#), [NP\\_033202.3](#)

**RefSeq Size:** 2631 bp

**RefSeq ORF:** 1125 bp

**Locus ID:** 20441

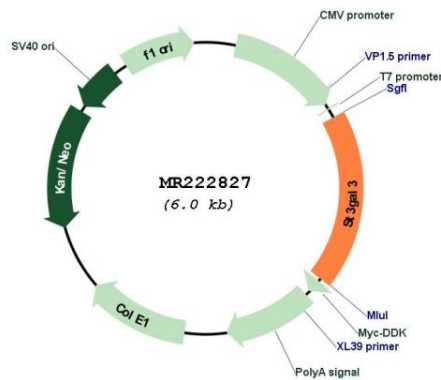
**UniProt ID:** [P97325](#)

**Cytogenetics:** 4 D1- D2.1

**MW:** 42.1 kDa

**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]

### Product images:



Circular map for MR222827