

## Product datasheet for **RR216848**

### St6gal2 (NM\_001100888) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St6gal2 (NM_001100888) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6gal2
Synonyms:	ST6Gal-II; ST6GalIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR216848 representing NM\_001100888  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAACCACTTGAAGCAATGGCGACAACGAATGCTCTTTGCAATATTTGTTGGGGCTCCTCTTTT  
 TGGCAATTTTCATCTATTTACCAACAGCAATCCTGCTGCACCTATGCCAGCTCCTTTTCTTCCCTGGA  
 GAGCCGCGGGCTCCTGCCTGTGACAGGGCAAGCAGAGGGTATCATGGGTGCATTGACAGGCCCTCTTTG  
 CCCAGAAGTTGGAGCCAAGCAAAGTACTGATGGACGGCCACTCTGCGAGCCCTTCAACAGCTGGCCTG  
 GGGACCCACAGAAAGGGGACCAGGCCAAGATGGCTTTGACAATGGGGATGAGTTTTTACATCCCAGGT  
 CGGGAGGAAATCACAAAGTCTTCTATCTGAGGAAGACAACACTTTTTTTGTTGCGGGTCAGCCTGGG  
 TTGTACCACCACCGCAGGGTCCCTGGGGCTGCCATCTCGGGGAGTCTCATGGCAATCAGGACCTG  
 GTCAGCCCAAGCAGGAGAAGCTGCGTACCCAAGGAGAGGCAGTTTGCCTGAGGAAGCCTATGATAGTGA  
 CATGCTGTCGACCTCCATGTCCAGAGCCTTCTGTACCGCTCTGGAAGGGAACCGTGTCTCTAAGATG  
 TTGAACCCGCGCCTGCAGAAAGCCATGCCTACTACATGTCCTTAAACAAGCACGGTGTGCGCTTACGA  
 GGCGGGGGCGGCGTGAGGCACGACGTACAGGGCCAGAGCTGCTGTGCGAGATGCGCAAGCGTGTGCGTGT  
 GCGCACCTTGGACGGCAAGAGGCGCCCTTCTCAGGGCTGGGCTGGCGGCTCTGGTACCTGGGGTCCCT  
 CTGAGCCAGTTGCACCCCGCGGTTTGGCAGCTGCGCAGTTGTAATGTCTGCCGAGCCATCCTGAACT  
 CCTCTTGGGGGAGGAAATCGATTCTCATGATGCAAGTTTGTAGATTTAACTCTGCCCTACACGTGGCTA  
 TGAGAAAGATGTCGAAATAAAACCACAGTACGCATCATTAATTCAGATTCTGGCCAACCCAGCCAT  
 CACTTCATTGACAGTTCTTTATATAAAGATGTTATTCTGGTAGCCTGGGATCCAGCTCCTATTCTGCCA  
 ATCTTAACTGTGGTATAAGAAGCCAGATTACAACCTTTTCACTCCATATATCCAGCATGCCTGAAATA  
 CCCAACTCAGCCATTTTACATTCTTACCCCAAATTCATATGGCAGCTTTGGGACATTATCCAGGAAAC  
 ACAAGGGAGAAGATACAGCCCAACCCACCATCTTCTGGTTTTATTGGAATCCTCGTCATGATGTCATGT  
 GCCAAGAGGTGCACGTGTATGAGTACATCCCATCTGTCAGACAGACAGAAGTTTGGCCACTACCATGAGCT  
 GTACTACGACGCAGCCTGCACCTTGGGAGCCTACCACCCATTGCTTTATGAAAAGCTACTGGTGCAGCGC  
 CTTAACACAGGCCACCCAGGCAGATTTGCACCACAAGGAAAGGTGGTCTGCCAGGCTTCCAGACTCTGC  
 GGTGCCCAGTAACCAGGCCCAACAATAACAACACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216848 representing NM\_001100888  
 Red=Cloning site Green=Tags(s)

MKPHLKQWRQRMFLAIFVWGLLFLAIFIYFTNSNPAAMPSSFSFLESRGLLPVQKQQRVIMGALQEPSL  
 PRSLEPSKVLMDGHSASPFNSWPGDPQKGDQAQDGFNDGDEFFTSQVGRKSQSAFYPEEDNYFFVAGQPG  
 LYHHRQGALGLPSPGESSWQSGPGQPKQEKLRRPRRGSLEPEAYDSDMLSTSMSRAFLYRLWKGTVSSKM  
 LNPRLQKAMRYMSFNKHGVRFSRRGRREARRTGPELLCEMRKRVVRVRLDQKEAPFSGLGWRPLVPGVP  
 LSQ LHPRLRSCAVVMSAGAILNSSLGEEIDSHDAVLRFNAPTRGYEKDVGNKTTVRIINSQILANPSH  
 HFIDSSLYKDVILVAWDPAPYSANLNLWYKPDYNLFTPYIQHRLKYPTQPFYILHPKFIWQLWDIIQEN  
 TREKIQPNPPSSGFIGILVMMSMCQEVHVEYIIPSVRQTELCHYHELYYDAACTLGAYHPLLVEKLLVQR  
 LNTGTQADLHHKGVVLPGFQTLRCPVTRPNNTNT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001100888

**ORF Size:** 1575 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\\_001100888.1](#), [NP\\_001094358.1](#)

**RefSeq Size:** 1800 bp

**RefSeq ORF:** 1578 bp

**Locus ID:** 301155

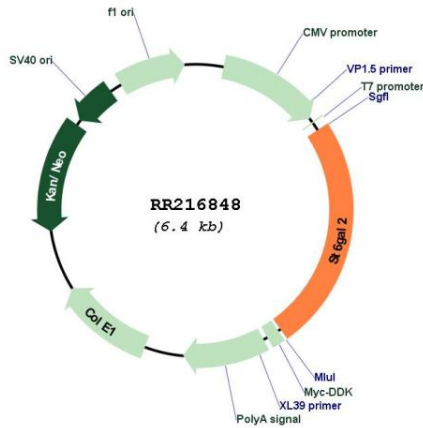
**UniProt ID:** [Q701R3](#)

**Cytogenetics:** 9q11

**MW:** 59.9 kDa

**Gene Summary:** Transfers sialic acid from the donor of substrate CMP-sialic acid to galactose containing acceptor substrates. Has alpha-2,6-sialyltransferase activity toward oligosaccharides that have the Gal-beta-1,4-GlcNAc sequence at the non-reducing end of their carbohydrate groups, but it has weak or no activities toward glycoproteins and glycolipids.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR216848