

Product datasheet for **MR220251**

St6gal2 (NM_172829) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St6gal2 (NM_172829) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St6gal2
Synonyms:	C230064G14Rik; mKIAA1877; St6galII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220251 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACCACTTGAAGCAATGGCGACAACGAATGCTCTTTGGAATATTTGTTGGGGCTCCTCTTTT
 TGGCAATTTTCATCTACTTCACCAACAGCAATCCTGCGGCACCTATGCCAGCTCCTTTTCTTCTGGA
 GAGACGTGGGCTCCTGCCTCTACAGGGCAAGCAGCGGGTATCATGGGCGCTTTCAGGAACCTCTTTG
 CCCAGAAGTTGGATGCAAGCAAAGTGCTGCTGGACAGCCACCCTGAGAACCCTTTCACCCTTGGCCTG
 GGGACCCACAGAAATGGGATCAGGCCCAATGGCTTTGACAATGGGGATGAGTTTTTACATCCCAGGT
 TGGGAGGAAATCACAAGCGCTTCTATCCCGAGGAAGATAGCTATTTTTTTGTTGCGGATCAGCCTGAG
 TTGTACCACCACAGGCAGGGTGCCTGGAGCTGCCATCTCCAGGGGAGACATCATGGCGATCAGGACCTG
 TTCAGCCCAAGCAGAAGCTGCTCCACCAAGGCGAGGCAGCTTGCCTGAGGAAGCCTATGACAGCGACAT
 GCTGTCAGCCTCCATGTCGAGAGCCTTCTGTACCGGCTCTGGAAGGGGGCCGTGCTCTAAGATGTTG
 AACCCGCGCTGCAGAAGGCCATGCGTTACTACATGTCCTTCAACAAGCATGGTGTGCGCTTCCGAGGC
 GGGGTCGGCGTGAAGCTACACGTACAGGGCCGGAGCTGCTGTGTGAGATGCGCAGACGTGTGCGTGTGCG
 CACGTTGGACGGCAGAGAGGGCGCCTTCTCGGGCTGGGCTGGCGGCTCTGGTACCAGGTGTACCTCTG
 AGCCAGTTGCACCCGCGCGGTCTGAGCAGCTGCGCAGTTGTATGCTGCCGGTGCCATCCTGAACCTCT
 CCTTGGGGGAGGAAATCGATTCTCATGATGCAGTTTTGAGATTTAACTCTGCCCTACACGTGGCTATGA
 GAAAGATGTCGGAATAAAACCACAGTACGCATCATAATTCTCAGATTTGGCCAACCCAGCCATCAC
 TTCATTGACAGTGCTTTATATAAAGATGTTATCCTGGTAGCCTGGGATCCTGCTCCTTATCTGCCAATC
 TTAACCTGTGGTATAAGAAGCCAGATTACAACCTTTTCACTCCATATATCCAGCATCGCCGAAATACCC
 GACTCAGCCATTTTACATTCTTCAACCCAAAGTTTCATATGGCAGCTTTGGGACATTATCCAGGAGAATACA
 AGGGAGAAGATACAGCCCAACCCACCATCTTCTGGTTTTATTGGTACGTGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220251 protein sequence
 Red=Cloning site Green=Tags(s)

MKPHLKQWRQMLFGIFVWGLLFLAIFIYFTNSNPAAPMPSSFSFLERRGLLPLQKGQRVIMGALQEPSL
 PRSLDASKVLLDHPENPFHPWPQKWDQAPNGFDNGDEFFTSQVGRKSQSAFYPEEDSYFFVADQPE
 LYHHRQGALELPSPGETSWRSGPVQPKQLLHPRRGSLEPEAYSDMLASMSRAFLYRLWKGAVSSKML
 NPRLQKAMRYYSFNKHGVRFRRRGRREATRTGPELLCEMRRRVVRVRLDGREAPFSGLGWRPLVPGVPL
 SQLHPRGLSSCAVMSAGAILNSSLGEEIDSHDAVLRFNAPTRGYEKDVGNKTTVRIINSQILANPSHH
 FIDSALYKDVILVAWDPAPYSANLNLWYKPDYNLFTPYIQHRRKYPTQPFYILHPKFIWQLWDIIQENT
 REKIQPNPPSSGFIGTCV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_172829

ORF Size: 1317 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

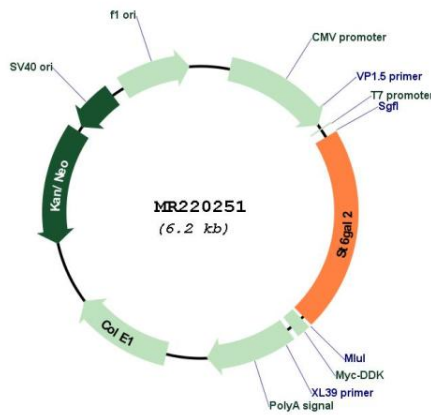
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_172829.2](#), [NP_766417.1](#)

RefSeq Size: 2278 bp
 RefSeq ORF: 1317 bp
 Locus ID: 240119
 UniProt ID: [Q76K27](#)
 Cytogenetics: 17 C
 MW: 50.3 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 MR220251