

## Product datasheet for MR217334

### B3gnt6 (NM\_001081167) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B3gnt6 (NM\_001081167) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** B3gnt6  
**Synonyms:** BC039789; Core-3; Core3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR217334 representing NM\_001081167  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTTGCCAGCAGCCGAGGTTCAAGAGTCCCACGACACTGGCTTTCTTTCTAGTGGGTGTGACTT  
 TAGTGGTGTGAATCAGTGGTTCCTCCAGGAACACAGGCAGGAGAAAGCCAAGGGTCTGTGGCCACTCG  
 CCGGTCTTTGGCAGCTGTGGTACAGCGTTCGCCGCTCTCCAGGTGCCCCCTGCGTGGCCAAACGCCTCC  
 GCGAACCTCTGACTGGTTCAGCTGCTGCCTGCTAGGATCCAAGACTTCCTGCGCTACCGCCACTGCC  
 GCCGCTTCCGCAACTGTGGGACGCGCCGCCAAGTGCAGCGGGCCCCCGGGCGTCTTCTGCTGCTGGC  
 CGTGAAGTCGTCGCTGCGCACTACGAGCGGCGGAGCTGATCCGGCGCACGTGGGGCCAGGAGCGCAGC  
 TACAGCGGCCGGCAGGTCTTCGCTCTTCTGTTGGGACCTCCCTCCCGAGGAGGCGGCTCGCGAGC  
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 AGCTTCTGCTCAGTGCAGCAGCAGCTTTCGTGCACACGGCCAACGTAAGTACTGAGTTCCTAGAGGTGC  
 AGTCGCCCCGAGCACCACCTTCCACGGGAGCTCATGGTTGGTCTGTGCTGTTCGCGAAAGCGGGAG  
 CAAGTACTTCGTGCCCCACAGATCTTCCCGGGCGTAGCCTACCCTGCGTACTGCAGCGGGCGGCTTC  
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 CGGCGTGCAGTGCCTAATGTGAGCGCTTATCCTTGGATCCCTGCATGTACCGGAGCTGCTGCTGGTG  
 CACCGCTTCGCGCCTTATGAGATGCTGCTCATGTGGAAGGCGCTGCACAACCCAGCGCTGCACTGTAGCC  
 ACAAACAGGTTGCAGGATCTCCCACGGCCGGAGAACAGAACCCCGATGCACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >MR217334 representing NM\_001081167  
 Red=Cloning site Green=Tags(s)

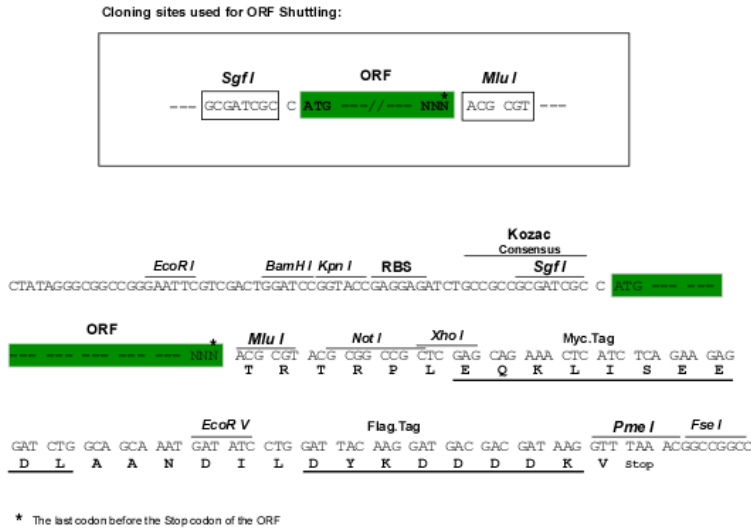
MALPSSRRFKSPTTLAFFLVGVTLVVLNQWFLQEHRQEAKAGPVATRSLAAVVQRSPLFQVPPCVANAS  
 ANLLTGFQLLPARIQDFLRHRHCRFPQLWDAPPKACAGPRGVFLLAVKSSPAHYERRELIRRTWGQERS  
 YSGRQVLRFLVGTSPPEEAAREPQLADLLSLEAREYGDVLQWDFSDTFLNLTCLKHLHLLDWTAEHCPGV  
 SFLLSCDDDDVFVHTANVLSFLEVQSPHHLFTGQLMVGSVPVRESGSKYFVPPQIFPGVAYPAYCSGGGF  
 LLSRYTVRNLRSAAHVPLFPIDDAYMGMCLQQAGLAPSSHQGI RPF GVQLP NVQRLSLDPCMYRELLLV  
 HRFAPYEMLLMWKALHNPALHCSHKQVAGSPTAGEQNPDAAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9085\\_e09.zip](https://cdn.origene.com/chromatograms/mm9085_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001081167

**ORF Size:** 1173 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\\_001081167.1](#), [NP\\_001074636.1](#)

**RefSeq Size:** 2367 bp

**RefSeq ORF:** 1176 bp

**Locus ID:** 272411

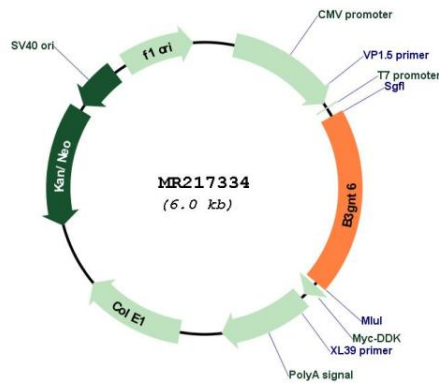
**UniProt ID:** [Q3USF0](#)

**Cytogenetics:** 7 E1

**MW:** 44 kDa

**Gene Summary:** Beta-1,3-N-acetylglucosaminyltransferase that synthesizes the core 3 structure of the O-glycan, an important precursor in the biosynthesis of mucin-type glycoproteins. Plays an important role in the synthesis of mucin-type O-glycans in digestive organs.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR217334