

## Product datasheet for MR206220

### B3gnt2 (NM\_001169114) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3gnt2 (NM_001169114) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3gnt2
Synonyms:	AA408337; AA409404; AW260308; B3Galt6; B3gnt1; Beta3gnt; BGnT-1; BGnT-2; BGnT1; BGnT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206220 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGTGGGGCGTGAAGAGTCAAGTTGCTGGGCATCCTGATGATGGCAAATGTCTTCATTTATTTGA  
TTGTGGAAGTCTCAAAAACAGTAGCCAAGACAAAATGGAAAGGGAGGAGTAATAATCCCGAAAGAGAA  
GTTCTGGAAGCCACCCAGCACTCCCGGGCATACTGGAACAGGGAACAGGAGAAGCTGAACAGGTGGTAC  
AATCCCATCTTGAACAGGGTGGCCAATCAGACAGGGGAGCTAGCCACATCTCAAACACAAGTCACCTGA  
GCTATTGTGAACCAGACTCGACGGTCATGACAGCTGTGACAGATTTTAATAATCTGCCGGACAGATTTAA  
AGACTTTCTCTTGATTTGAGATGCCGGAATTAAGTCCCTCATTCCACATTTTCCAGAAAGGCAAGCAATTCGGGAGT  
AAGCCCTTCTTACTATTGGCGATAAAGTCCCTCATTCCACATTTTCCAGAAAGGCAAGCAATTCGGGAGT  
CTTGGGGCCGAGAAACCAACGTAGGGAACCCAGACAGTAGTGAGGGTCTTCTCTGTTGGGCAAGACACCCCC  
AGAGGACAACCACCTGACCTTTCGGACATGCTTAAGTTTGAAGTGAACAAGCACCAGGACATCCTCATG  
TGGAATATAGAGACACATCTTCAACCTGTCCCTGAAGGAAGTGTCTGTTTCTTAGTGGGTGAGCACTT  
CCTGTCCAGACGCAGAGTTTGTCTTCAAGGGCGATGATGACGTGTTTGTGAACACCCATCACATCCTTAA  
TTACTTGAATAGCTTATCCAAGAGCAAAGCCAAAGACTTGTTTCATAGGTGACGTGATCCACAATGCTGGG  
CCTCACCAGGATAAGAACTGAAGTACTACATCCAGAAGTCTTACACCGGCTCACCACCGTATG  
CCGGGGTGGTGGATTCTGTACTCCGGCCCCCTTGCCTTGAAGCTGTACAGTGCGACTAGCCGGGTCCA  
TCTCTACCTATTGATGATGTTTATACGGGAATGTGCCTTCAGAACTGGGCCTTGTCCAGAGAAGCAC  
AAAGGCTTCAGGACATTTGATATTGAAGAGAAAAATAAGAAAAATATTTGTTCTATATAGACCTAATGT  
TAGTACATAGCAGAAAACCTCAAGAGATGATTGATATCTGGTCTCAGTTGCAAAGTCTAATTTAAATG  
C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR206220 protein sequence  
 Red=Cloning site Green=Tags(s)

MSVGRRRVKLLGILMMANVFIYLIVEVSKNSSQDKNGKGGVIIPKEKFWKPPSTPRAYWNREQEKLNRWY  
 NPILNRVANQTGELATSPNTSHLSYCEPDSTVMTAVTDFNLPDRFKDFLLYLRCRNYSLIDQPKKCAK  
 KPFLLLAIKSLIPHFARRQAIRESWGRETNVGNQTVVRVFLGKTPPEDNHPDLSDMLKFESDKHQDILM  
 WNYRDTFFNLSLKEVFLRWVSTSCPDAEFVFKGDDDFVFNTHHILNLYNSLSKSKAKDLFIGDVIHNAG  
 PHRDKCLKYYIPEVFYTGYPYAGGGFLYSGPLALRLYSATSRVHLYPIDDVYGMCLQKLGIVPEKH  
 KGFRTFDIEEKKNKICSYIDLMLVHSRKPQEMIDIWSQLQSPNLKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001169114

**ORF Size:** 1194 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\\_001169114.1](#), [NP\\_001162585.1](#)

**RefSeq Size:** 2576 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 53625

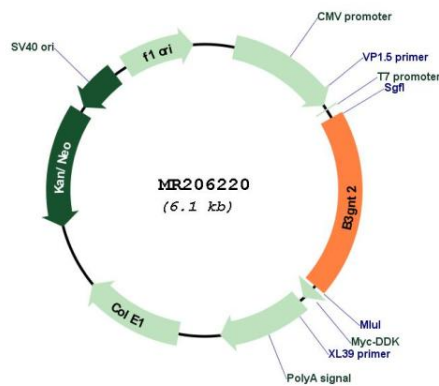
**UniProt ID:** [Q9Z222](#)

**Cytogenetics:** 11 14.22 cM

**MW:** 45.9 kDa

**Gene Summary:** Beta-1,3-N-acetylglucosaminyltransferase involved in the synthesis of poly-N-acetyllactosamine. Catalyzes the initiation and elongation of poly-N-acetyllactosamine chains (PubMed:9892646). Probably constitutes the main polylactosamine synthase (PubMed:17890318).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206220