

## Product datasheet for MC223300

### B4galnt4 (NM\_177897) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B4galnt4 (NM\_177897) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** B4galnt4  
**Synonyms:** BC038881; beta4GalNAcT4; Gm1095  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223300 representing NM\_177897  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCGTGGTTCCCGGTGAAGAAGGTCCGCAAGCAGATGAAGCTGCTGCTGCTGTTGCTGCTGCTCACCT  
 GCGCCCGTGGCTCACGTATGTGCACCGGAGCCTGGTGCGCCCGGCGCGCTACGCCAGCGGTGGG  
 CTACGGGCGAGATGGGGAGAAGCTGACCGGTGTGACCGATAGCCGCGGAGTCCGAGTGCCATCGTCCACA  
 CAGAGGTCGGAGGACTCGAGTGAAGTCATGAAGAGGAGCAGGCCCCGAGGGGCGGGGCCAAACATGC  
 TGTTTCCTGGAGGACCTAGGAAGCCACCCCACTGAACCTCACCCACCAGACACCCCATGGCGGAAGA  
 GTTCAAAGGACAGGTGAACCTGCACGTGTTGAGGACTGGTGTGGAGGTGCTGTGGGCCACCTGAGACGG  
 AATCTGCACTTCCCACTTTTCTCACACTCGTACTACGGTGACAAAGTTAGCTGTGTCCCTAAGTGGA  
 AGAACTATGGACTCCGGATTTTGGCTTCATCCACCCAGCCAGAGATGGAGACATCCAGTTCTCTGTGGC  
 TTCGGATGACAACTCTGAGTTCTGGCTGAGTTGGATGAGAGCCAGCAGCCGCCAGCTGTAGCCTTT  
 GTGGGCAAGACTGGCTCCGAGTGGACCCACCTGGAGAATTCACCAAGTTCAGCTCCAGGTGTCTAAGC  
 CAGTCCGGCTCATGGCTCCCGGAGATACTACTTTGAAGTCCACAAGCAAGATGACAAGGGTTTCAGA  
 CCATGTGGAAGTGGGTTGGCGAGCTTTCCTGCCTGGTCTGAAGTTCGAGATCATTGATTCTGCTCACATT  
 TCCTGTACACAGATGAGTCATCTCTGAAGATGGACATGTGGCCATGTGCCTCAGTCTCCAGCCAGCC  
 ACATAGGAGGATCCCGCCGAGGGGAACCCAGCGCCGACATGTGCACCCAGACCCAGGGATACCTT  
 CTTCTCACTCCTCGGATGGAACCTTTGAGCCTGGAGAATGTTCTGGAGCCCTGTGCCTATGCCCCACC  
 TATATCTCAAGGATTTCCCATAGCCAGATACCAAGGACTACAGTTTGTGTACCTGTCTTTCATCTACC  
 CCAATGACCATAACCGTCTCACTCACATGGAGACAGACAACAAGTCTTCTACCGTGAGTCCCACTATA  
 CCTGAAAAGGTTTGGGTTCTATAAATACATGAAAATGGACAAGGAGGAGGAGGAAGATGAGGAGGAA  
 GAAGTTCAGCGTAGAGCCTTCTCTTCTCAACCCAGATGACTTCTGGATGAGGAGGATGAGCAGGATC  
 TGTTAGACAGCCTGGAGCCACCGATGCATCTGTACAGCAGAGCCACAGGACCCCAACCCAGCAGCCTC  
 CACTGGAACGACAGCCAGCCGACCCCACTACAAGTCTCTGGACGAGCAGCCCTCAGACTCC  
 CGGGCACTGAATTGGGCCACGCCCCCTGCCCTCTTCTGGGGCGAGCTCCACCTCCCGAAGTGTGG



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AGAAGTCGCCTTCAAAGGTGTACGTGACCAGGGTCCGACCTGGACAGCGGGCTTCCCCGAGGGCATTGCG
AGACTCACCTGGCCACCCTTCCCTGGCGTCTTCTGCGCCCAAGCCTCTGCCAGAGTACAGCTGCGG
GTACCCACATCCACCTCGGACCCAGGGCTATAGGACCAGTGGCCCAAGGTACAGAACTAAAGCCCC
CAGTCAGGGCCCAGACCAGCCAGGGAGGGCCGGGAGGGCCAGTTACATGGACAGGGACTCATGGTGCCAC
AGTGGACTTGAATCCTCAGTGGAAACACAGCCTGTGACTTCCTTCTGAGCTTGTCTCAGGTATCCAGG
CCACAGCTGCCAGGAGAGGGTGAAGAAGGGGAGGAGGATGGGGCCCCAGGTGATGAGGCCACATCAGAAG
ACAGTGAGGAAGAGGAGGAGCCGCGCTGGGCGGCCCTGGGTGCTGGCGGGAGGATGCCATCAACTG
GCAGCGCACGTTTACGCTGGGCGCCATGGACTTCGAGCTCTGCGCTCTGACTGGAACGACCTGCGCTGT
AACGTATCCGGGAACCTGCAACTTCTGAGGCCGAAGCGGTGGATGTAGTGGCTCAGTACATGGAGCGGC
TAAATGCAAAGCATGGCGGGCGCTTCTCGTCTTCTACGCATCGTGAACGTGGAGAAGCGCCGCGACTCTGC
ACGCGGGAGCCGCTTCTCCTGGAATGGAATTGCAAGAGCGGGAGGAGCCGCCAGCGCCTATCCGAA
TACGTCTTCTGCGGTTGCCCGGAGCCCGCTTGGGGACGAAGATGGAGAAAGTCCCAGCCGCTCCAG
CCGCTCGATCCACCAGACAGTCGCCAGAGCTCTGCCGCTTTGCATCTGGCCTGGCGTCAGGATGT
CATGGTTCATTTTATTGTACCAGTGAAGAATCAGGCGCGCTGGGTAGTGCAGTTCCTGGCAGATATGACC
GCGCTGCATGTGCATACGGGGACTCGTACTTCAACATCATCTTGGTGGACTTTGAGAGCGAGGACATGG
ATGTGGAGCGGGCCCTGGTGGCGCTCAGCTACCTCGGTACCAGTACTTAAACGAACTGAAACTTCGA
GCGCTCTGCAGGCCTGCAAACTGGAGTGGATGCCGTGGAGGACCCAGCAGCATCGTTTTCTCTGTGAC
CTGCACATCCACTTCCCACCTAATATCCTGGACAGCATCCGCAAGCATTGCGTGGAGGGCAAGCTGGCCT
TCGCCCCGTGGTTCATGCGTCTGGGCTGTGGAAGCTCACCGTGGGACCCACATGGTTACTGGGAAGTGA
TGGATTTGGCCTCTTGGGATCTACAAATCAGACTTTGACAGAGTAGGAGGCATGAACACTGAGGAGTTC
CGTGACCAGTGGGAGGCGAGGACTGGGAATCTTGACAGGGTCTGCAGGCAGGGCTGGAGGTGGAGA
GGCTTCGACTGCGACACTTACCACCCTATCACTCGAAGCGAGGCATGTGGCCACACGACCCGCAA
AGGTGCCCGCGCACAGCGATCTGA

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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_177897

**Insert Size:**

3105 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_177897.3](#), [NP\\_808565.2](#)

**RefSeq Size:**

3105 bp

**RefSeq ORF:**

3105 bp

Locus ID: 330671

UniProt ID: [Q766D5](#)

Cytogenetics: 7 F5

**Gene Summary:** Transfers N-acetylgalactosamine (GalNAc) from UDP-GalNAc to N-acetylglucosamine-beta-benzyl with a beta-1,4-linkage to form N,N'-diacetyllactosediamine, GalNAc-beta-1,4-GlcNAc structures in N-linked glycans and probably O-linked glycans.[UniProtKB/Swiss-Prot Function]