

## Product datasheet for MR220287

### B4galnt4 (NM\_177897) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B4galnt4 (NM\_177897) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** B4galnt4  
**Synonyms:** BC038881; beta4GalNAcT4; Gm1095  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR220287 representing NM\_177897  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGTGGTTCCCGGTGAAGAAGGTCCGCAAGCAGATGAAGCTGCTGCTGCTGTTGCTGCTGCTCACCT  
 GCGCCCGTGGCTCAGTATGTGCACCGGAGCCTGGTGCGCCGGGCCGCGCTACGCCAGCGGTGGG  
 CTACGGGCGAGATGGGAGAAGCTGACCGGTGTGACCGATAGCCGCGGAGTCCGAGTGCCATCGTCCACA  
 CAGAGGTCGGAGGACTCGAGTAAAAGTCATGAAGAGGAGCAGGCCGCCGAGGGGGCCCAAACATGC  
 TGTTTCTGGAGGACCTAGGAAGCCACCCCACTGAACCTCACCCACCAGACACCCCATGGCGGAAGA  
 GTCAAAGGACAGGTGAACCTGCACGTGTTTGGAGACTGGTGTGGAGGTGCTGTGGGCCACCTGAGACGG  
 AATCTGCACTTCCCACTCTTCCCTCACACTCGTACTACGGTGACAAAGTTAGCTGTGTCCCTAAGTGGA  
 AGAACTATGGACTCCGGATTTTTGGCTTCATCCACCCAGCCAGAGATGGAGACATCCAGTTCTGTGGC  
 TTCGGATGACAACTCTGAGTTCTGGCTGAGTTTGGATGAGAGCCAGCAGCCGCCAGCTTGTAGCCTTT  
 GTGGGCAAGACTGGCTCCGAGTGGACCGCACCTGGAGAATTCACCAAGTTCAGCTCCAGGTGTCTAAGC  
 CACGTCCGCTCATGGCCTCCCGGAGATACTACTTTGAAGTGTCCACAAGCAAGATGACAAGGGTTTCA  
 CCATGTGGAAGTGGTTGGCGAGCTTCTCCTGCCTGGTCTGAAGTTCGAGATCATTGATTCTGCTCACATT  
 TCCCTGTACACAGATGAGTCATCTCTGAAGATGGACCATGTGGCCATGTGCCTCAGTCTCCAGCCAGCC  
 ACATAGGAGGATTCGCCCGCAGGGGGAACCCAGCAGCCGACATGCTGCACCCAGACCCAGGGATACCTT  
 CTTCTCACTCCTCGGATGGAACCTTTGAGCCTGGAGAATGTTCTGGAGCCCTGTGCCTATGCCCCACC  
 TATATCTCAAGGATTTCCCATAGCCAGATACCAAGGACTACAGTTTGTGTACCTGTCTTCTATCTACC  
 CCAATGACCATAACCCGTCTCACTCACATGGAGACAGACAACAAGTGTCTTACCCTGAGTCCCACTATA  
 CCTGAAAGGTTTGGTTCTATAAATACATGAAAATGGACAAGGAGGAGGAGGAAAGATGAGGAGGAA  
 GAAGTTCAGCGTAGACCTTCTCTTCTCAACCCAGATGACTTCTGGATGAGGAGGATGAGCAGGATC  
 TGTTAGACAGCCTGGAGCCACCGATGCATCTGTACAGCAGGCCACAGGACCCCAACCCAGCAGCCTC  
 CACTGAAACGACAGCCAGCCGACCCACCTACAAGTCTGCTGACGAGCAGACCCTCAGACACTCC



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CGGGCACTGAATTGGGCCCCACGCCCTGCCCTCTTCTTGGGGCGAGCTCCACCTCCCCGAAGTGTGG  
 AGAAGTCGCCTTCAAAGGTGTACGTGACCAGGGTCCGACCTGGACAGCGGGCTTCCCCGAGGGCATTGCG  
 AGACTCACCTGGCCACCCTTCCCTGGCGTCTTCTGCGCCCCAAGCCTCTGCCAGAGTACAGTGC GG  
 GTACCCCCACATCCACCTCGGACCCAGGGCTATAGGACCAGTGGCCCCAAGGTACAGAACTAAAGCCCC  
 CAGTCAGGGCCCAGACCAGCCAGGGAGGCGGGAGGGCCAGTTACATGGACAGGGACTCATGGTGCCAC  
 AGTGGACTTGAACCTCAGTGGAAACACAGCTGTGACTTCTTCTGAGCTTGTCTCAGTATCCAGG  
 CCACAGTGCAGGAGAGGGTGAAGAAGGGGAGGAGTGGGGCCCCAGGTGATGAGGCCACATCAGAAG  
 ACAGTGAGGAAGAGGAGGAGCCGCGCTGGGCGGCCCTGGGTGCGTGGCGGGAGGATGCCATCAACTG  
 GCAGCGACGTTACAGCTGGGCGCCATGGACTTCGAGCTCCTGCGCTCTGACTGGAACGACCTGCGTGT  
 AACGTATCCGGGAACCTGCAACTTCTGAGGCCGAAGCGGTGGATGTAGTGGCTCAGTACATGGAGCGGC  
 TAAATGCAAAGCATGGCGGGCGCTTCTCGTCTACGCATCGTGAACGTGGAGAAGCGCCGCGACTCTGC  
 ACGCGGGAGCCGCTTCTCCTGGAAGTGAATTGCAAGAGCGGGAGGAGCCGCCAGCGCTATCCGAA  
 TACGTCTTCTGCGGTTGCCCGAGCCCGCTGGGGACGAAGATGGAGAAAGTCCCAGCCGCTCCAG  
 CCGCTCGATCCACCAGACAGTGCAGAGCTCTGCCGCTTGCATCTGGCCTGGCGTCAGGATGT  
 CATGGTTCATTTATTGTACCAGTGAAGAATCAGGCGCGTGGGTAGTGCAGTTCCTGGCAGATATGACC  
 GCCTGCATGTGCATACGGGGGACTCGTACTTCAACATCATCTTGGTGGACTTTGAGAGCGAGGACATGG  
 ATGTGGAGCGGGCCCTGCGTGGGCTCAGTACCTCGGTACCACTACTTAAACGAACTGAAAATTCGA  
 GCGCTCTGCAGGCCTGCAAACTGGAGTGGATGCCGTGGAGGACCCAGCAGCATCGTTTTCTCTGTGAC  
 CTGCACATCCACTTCCCACCTAATATCTGGACAGCATCCGCAAGCATTGCGTGGAGGGCAAGCTGGCCT  
 TCGCCCCGTGGTTCATGCGTCTGGGCTGTGGAAGCTCACCGTGGGACCCACATGGTTACTGGGAAGTGA  
 TGGATTTGGCCTCTTGGGATCTACAAATCAGACTTTGACAGAGTAGGAGGCATGAACACTGAGGAGTTC  
 CGTGACCAGTGGGAGGGCAGGACTGGGAATCTTTCAGAGGCTCTGCAGGCAGGGCTGGAGGTGGAGA  
 GGCTTCGACTGCGACACTTACCACACTATCACTCGAAGCGAGGCATGTGGCCACACGCAGCCGCAA  
 AGGTGCCCGCCACAGCGATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220287 representing NM\_177897  
 Red=Cloning site Green=Tags(s)

MPWFPVKVQRKMKLLLLLLLLTCAAWLTYVHRSLVPRGRALRQRLGYGRDGEKLTGVTDSDRGVVRVPSST  
 QRSESSSESHHEEQAPEGRGNMLFPGGPRKPPPLNLHQTPPWREEFKGQVNLHVFEDWCGGAVGHLRR  
 NLHFPLFPHTRTTVTKLAVSPKWKNYGLRIFGF IHPARDGDIQFSVASDDNSEFWL SLDESPAAAQLVAF  
 VGKTGSEWTPAGEFTKFSQVSKPRRLMASRRYFELLHKQDDKGS DHVEVGWRAFLPGLKFEI IDSAHI  
 SLYTDESSLKMDHVAHVPQSPASHIGGFPPQGEPSADMLHPDPRDTFFLTPRMEPLSLENVLEPCAYAPT  
 YILKDFPIARYQGLQFVYLSFIYPNDHTRLTHMETDNKCFYRESPLYLERFGFYKMKMDKEEGEEDEEE  
 EVQRRAFLLNPDFFLDEEDEQDLLDSLEPTDASVQQSHRTPPTAASGTASPTPPTTSPLDEQTLRHS  
 RALNWA PRPLPLFLGRAPPRTVEKSPSKVYVTRVPRGQRASPRALRDSPPFPFVFLRPKPLPRVQLR  
 VPPHPPRTQGYRTSGPKVTELKPPVRAQTSQGGREGQLHGQGLMVPTVDLNSVETQPVTSFLLSLSQVSR  
 PQLPGEEGEEDGAPGDEATSEDEEEEEPAAGRPLGRWREDAINWQRTFSVGAMDFELLRSDWNLRC  
 NVSGNLQLPEAEAVDVVAQYMERLNAKHGGRFSLLRIVNVEKRRDSARGSRFLLELELQERGGSRQRLSE  
 YVFLRPLGARVGDDEGESPEPPPAASIHPSRPELCPRLHLAWRQDVMVHFIVPVKNQARWVVFADMT  
 ALHVHTGDSYFNILVDFESEDMDVERALRAAQLPRYQYLKRTGNFERSAGLQTVDAVEDPSSIVFLCD  
 LHIHFPPNILD SIRKHCVEGKLAFAPVVMRLGCGSSPWPDPHGYWEVNGFGLFGIYKSDFDVDRVGGMNTTEF  
 RDQWGGEDWELDRVLQAGLEVERLRLRHFYHHYHYSKRGMWATRSRKGARAQRS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_e01.zip](https://cdn.origene.com/chromatograms/mm9002_e01.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_177897

**ORF Size:** 3102 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\\_177897.4](#)

**RefSeq Size:** 3105 bp

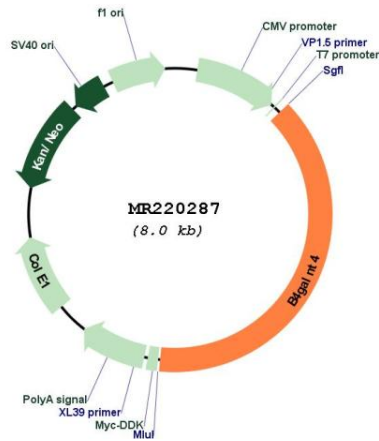
**RefSeq ORF:** 3105 bp

**Locus ID:** 330671

**UniProt ID:** [Q766D5](#)

**Cytogenetics:** 7 F5  
**MW:** 117.8 kDa  
**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]

**Product images:**



Circular map for MR220287