

## Product datasheet for **MR208543**

### **B4galnt1 (NM\_027739) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B4galnt1 (NM_027739) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B4galnt1
Synonyms:	4933429D13Rik; Gal-NAc-T; Galgt1; GalNAc-T; GalNAcT; Ggm-2; Ggm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208543 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGGCTAGACCGCCGGCCCTCTATGCGCTAGTCTTGCTGCTCGCCTGCGCCTCGCTGGGTCTCCTGT  
 ACTCCAGCACCCGAAACGCGCCAAGTCTCCCGAACCTCTGGCATTGTGGTCGCCCCACAAAGTCCCC  
 GAGACTCGATCTGCTAGACCTTGCCCTGAGCCTCGCTACGCACACATCCCGGTACAGATCAAGGAGCAA  
 GTGGTGGGGCTGCTGGCTCAGAACAAGTGCAGTTGTGAATCCAAGGGAGGAAGCCTTCCCTTGCCCTTTC  
 TGAGACAGGTTCCGGGCGTTGACCTCACTAAAGCCTTTGACGCTGAGGAGCTGAGGGCTGTTTCTGTCGC  
 CAGGGAGCAGGAATACCAGGCCTTCTTGAAGGAGCCGGTCCCTGGCTGACCAGCTGCTGATAGCTCCC  
 GCCAACTCCCCCTACAGTACCCCTGCAGGGTGTGGAGGTTAGCCCTCAGGAGCATCTGGTGCCAG  
 GGCTAAGTCTGCAGGAAGCTTCTGTCCAGGAGATATACCAGGTGAACCTGAGTGTCTCTAGGCACCTG  
 GGAGCTGGCAGGGGAAGTAACAGGAGTACTCTACGGGAGAGGGCAACCGGATCTCACCTTGCCAGC  
 CAGTTCTGGATAAACTCAACCGCAGCTGCAACTGGTGACTTACAGCAGCCGGAGCTACCAGGCCAACA  
 CAGCAGACACAGTCCGGTCTCCACCAAGGACATGAAGTTGCCTTACCATCTCGTAAGACACCTCC  
 CAACCCCGGCTGTACCCACCATCATCCCTACCCCAAGGAGCCGAGTACAACATCAGTGTCTGGTTACC  
 ATTGCCACCAAGACTTTTCTTCTTATGATCGACTACGGACACTATTGCCAGCATCCGACGCTTTTACC  
 CTACGGTCAACATAGTATCGCTGACGACAGTGACAAACCGGAGCGCATTAGCGACCCACACGTGGAGCA  
 CTACTTCATGCCCTTCGGCAAGGTTGGTTCGCAGGTCCGAACTGGCGGTGCCAAGTAAACACAAA  
 TACGTGCTGTGGTGGACGACGACTTTGTCTTACGGCGCGCACGCGGCTGGAGAAGCTTGTGGACGTGC  
 TCGAGAAGACGCCCTGGACCTGGTAGGGGGCGCGGTGCGGGAGATCTCGGGCTACGCTACCACCTACCG  
 GCAGCTGCTGAGTGTGGAGCCGGGCGCCCAAGGCTTGGGAACTGCTTCCGGCAAAAGCAGGGCTTCCAC  
 CACGAGCTCGTTGGCTTCCCAAGCTGTGTGGTACAGACGGCGTGGTCAACTTCTTCTGCGCGCACAG  
 ACAAAGTGCAGCAAGTGGGCTTTGACCCACGCCTCAACCGGGTGGACATCTGGAATTCTTCTGGATGG  
 ACTTGGTTTCTTCTGTTGGCTCCTGCTCTGATGTTGTTGTGGATCATGCATCGAAGGTGAAGTGCCG  
 TGGACAGCAAAGGACCCAGGAGCTGAACTTATGCCCGTTACCGTTACCCGGGATCACTGGACCAAAGTC  
 AAGTGGCCAAACATCGCCTACTTCTTCAAACACCGGCTACAGTGCATGACCGCCGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208543 protein sequence  
 Red=Cloning site Green=Tags(s)

MRLDRRALYALVLLACASLGLLYSSTRNAPSLPNPLALWSPQGPRLDLLDLAPEPRYAHIPVRIKEQ  
 VVGLLAQNNCSCEKGGSLPLPFLRQVRAVDLTKAFDAEELRAVSVAREQEYQAF LARSRLADQLLIAP  
 ANSPLQYPLQGVVQPLRSILVPGLSLQEASVQEIYQVNL SASLGTWDVAGEVTGVTLTGEQPDLLAS  
 PVLDKLNRQLQLVTYSSRSYQANTADTVRFSTKGHEVAF TILVRHPPNPRLYPPSSLPQGAEYNISALVT  
 IATKTFRLYDRLRLIASIRRFYPTVTIIVIADDSKPERISDPHVEHYFMPFGKWFAGRNLAVSQVTK  
 YVLWVDDDFVFTARTLEKLVLEKTPLDLVGGAVREISGYATTYRQLLSVEPGAPGLGNCFRQKQGFH  
 HELVGFPSVVTGTVNFFLARTDKVRQVGFDPRLNRVAHLEFFLDGLGFLRVGSCSDVVVDHASKVKLP  
 WAKDPGAETYARYRYPGSLDQSQVAKHRLFFKHRLQCMTAE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_027739

**ORF Size:** 1602 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_027739.1](#), [NP\\_082015.1](#)

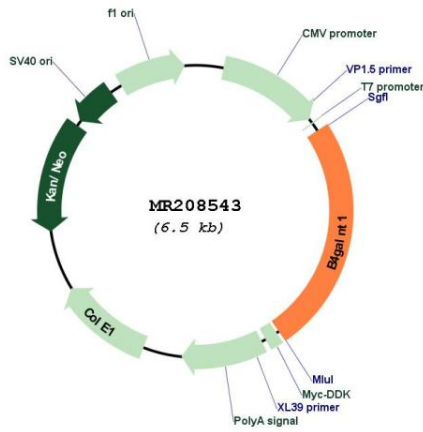
**RefSeq Size:** 2301 bp

**RefSeq ORF:** 1710 bp

**Locus ID:** 14421

UniProt ID: [Q09200](#)  
 Cytogenetics: 10 74.5 cM  
 MW: 59.2 kDa  
 Gene Summary: Involved in the biosynthesis of gangliosides GM2, GD2 and GA2.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208543