

## Product datasheet for **MG208543**

### **B4galnt1 (BC036996) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B4galnt1 (BC036996) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B4galnt1
Synonyms:	GalNAcT, Gal-NAc-T, GalNAc-T
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208543 representing BC036996  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGCTAGACCGCCGGCCCTCTATGCGCTAGTCTTGCTGCTCGCCTGCGCCTCGCTGGGTCTCCTGT  
 ACTCCAGCACCCGAAACGCGCCAAGTCTCCCGAACCTCTGGCATTGTGGTCGCCCCACAAAGGTCCCC  
 GAGACTCGATCTGCTAGACCTTGCCCTGAGCCTCGCTACGCACACATCCCGGTACAGATCAAGGAGCAA  
 GTGGTGGGGTCTGGCTCAGAACAAGTGCAGTTGTGAATCCAAGGGAGGAAGCCTTCCCTTGCCCTTTC  
 TGAGACAGGTTCCGGGCGTTGACCTCAAAAGCCTTTGACGCTGAGGAGCTGAGGGCTGTTTCTGTCGC  
 CAGGGAGCAGGAATACCAGGCCTTCTTGAAGGAGCCGGTCCCTGGCTGACCAGCTGCTGATAGCTCCC  
 GCCAACTCCCCCTACAGTACCCCTGCAGGGTGTGGAGGTTAGCCCTCAGGAGCATCCTGGTGCCAG  
 GGCTAAGTCTGCAGGAAGCTTCTGTCCAGGAGATATACCAGGTGAACCTGAGTGTCTCTAGGCACCTG  
 GGAGCTGGCAGGGGAAGTAACAGGAGTACTCTACGGGAGAGGGCAACCGGATCTCACCTTGCCAGC  
 CCAGTTCTGGATAAACTCAACCGCAGCTGCAACTGGTGACTTACAGCAGCCGGAGCTACCAGGCCAACA  
 CAGCAGACACAGTCCGGTCTCCACCAAGGACATGAAGTTGCCTTACCATCCTCGTAAGACACCTCC  
 CAACCCCGGCTGTACCCACCATCATCCCTACCCCAAGGAGCCGAGTACAACATCAGTGCTCTGGTTACC  
 ATTGCCACCAAGACTTTTCTTCTTATGATCGACTACGGACACTCATTGCCAGCATCCGACGCTTTTACC  
 CTACGGTCACCATAGTCATCGCTGACGACAGTGACAAACCGGAGCGCATTAGCGACCCACACGTGGAGCA  
 CTACTTCATGCCCTTCGCAAGGTTGGTTCGCAGGTCCGAACTGGCGGTGCCAAGTAAACACAAA  
 TACGTGCTGTGGTGGACGACGACTTTGTCTTACGGCGCGCACGCGGCTGGAGAAGCTTGTGGACGTGC  
 TCGAGAAGACGCCCTGGACCTGGTAGGGGGCGCGGTGCGGGAGATCTCGGGCTACGCTACCACCTACCG  
 GCAGTGTGAGTGGAGCCGGCGCCCAAGCCTTGGGAACTGCTTCCGGCAAAAGCAGGGCTTCCAC  
 CACGAGCTCGTTGGCTTCCCAAGCTGTGTGGTACAGACGGCGTGGTCAACTTCTTCTGCGCGCACAG  
 ACAAAGTGCGCCAAGTGGGCTTTGACCCACGCCTCAACCGGGTGGCACATCTGGAATTCTTCTGGATGG  
 ACTTGGTTTCTTCTGTTGGCTCCTGCTCTGATGTTGTTGTGGATCATGCATCGAAGGTGAAGTGCCG  
 TGGACAGCAAAGGACCCAGGAGCTGAAACTTATGCCCGTTACCGTTACCCGGGATCACTGGACCAAAGTC  
 AAGTGGCCAAACATCGCCTACTTCTTCAAACACCGGCTACAGTGCATGACCGCCGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208543 representing BC036996  
 Red=Cloning site Green=Tags(s)

MRLDRRALYALVLLACASLGLLYSSTRNAPSLPNPLALWSPQGPRLDLDLAPEPRYAHIPVRIKEQ  
 VVGLLAQNNCSCEKGGSLPLPFLRQVRAVDLTKAFDAEELRAVSVAREQEYQAFIARSRLADQLLIAP  
 ANSPLQYPLQGVVQPLRSILVPLSLQEASVQEIYQVNLASLGTWDVAGEVTGVTLTGEQPDLLAS  
 PVLDKLNRLQLVYSSRSYQANTADTVRFSTKGHEVAFTILVRHPPNPRLYPPSSLPQGAEYNISALVT  
 IATKTFRLYDRLRLIASIRRFYPTVTIIVIADDSKPERISDPHVEHYFMPFGKWFAGRNLAVSQVTTK  
 YVLWVDDDFVFTARTLEKLVLEKTPDLVGGAVREISGYATTYRQLLSVEPGAPGLGNCFRQKQGFH  
 HELVGFPSVVTGCVNFFLARTDKVRQVGFDPRLNRVAHLEFFLDGLGFLRVGSCSDVVVDHASKVKLP  
 WTAKDPAETARYRYPGSLDQSQVAKHRLFFKHRLQCMTAE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** BC036996

**ORF Size:** 1601 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:** [BC036996](#), [AAH36996](#)

**RefSeq Size:** 2249 bp

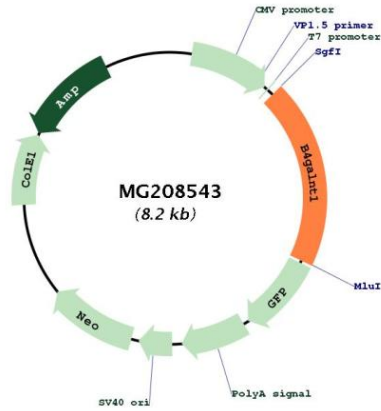
**RefSeq ORF:** 1601 bp

**Locus ID:** 14421

**Cytogenetics:** 10 74.5 cM

**Gene Summary:** Involved in the biosynthesis of gangliosides GM2, GD2 and GA2.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG208543