

## Product datasheet for **MC226534**

### **B4galnt1 (NM\_001244617) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B4galnt1 (NM\_001244617) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** B4galnt1  
**Synonyms:** 4933429D13Rik; Gal-NAc-T; Galgt1; GalNAc-T; GalNAct; Ggm-2; Ggm2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226534 representing NM\_001244617  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCGGCTAGACCGCCGGGCCCTCTATGCGCTAGTCTTGCTGCTCGCCTGCGCCTCGCTGGGTCTCCTGT  
ACTCCAGCACCCGAAACGCGCAAGTCTCCGAACCCTCTGGCATTGTGGTCGCCCCACAAGGTCCCC  
GAGACTCGATCTGCTAGACCTTGCCCTGAGCCTCGCTACGCACACATCCCGTCAAGGATCAAGGAGCAA  
GTGGTGGGGCTGCTGGCTCAGAACAAGTCAAGTGAATCCAAGGGAGGAAGCCTTCCCTTGCCCTTTC  
TGAGACAGGTTCCGGGCGTTGACCTCACTAAAGCCTTTGACGCTGAGGAGCTGAGGGCTGTTTCTGTGCG  
CAGGGAGCAGGAATACCAGGCCTTCTTGAAGGAGCCGGTCCCTGGCTGACCAGCTGCTGATAGCTCCC  
GCCAACTCCCCCTTACAGTACCCCTGCAGGGTGTGGAGGTTAGCCCCCTCAGGAGCATCCTGGTGCCAG  
GGCTAAGTCTGCAGGAAGCTTCTGTCCAGGAGATATACCAGGTGAACCTGAGTGTCTCTAGGCACCTG  
GGACGTGGCAGGGGAAGTAAACAGGAGTACTCTCACGGGAGAGGGCAACCGGATCTCACCTTGCCAGC  
CCAGTTCTGGATAAACTCAACCGGCAGCTGCAACTGGTGACTTACAGCAGCCGGAGCTACCAGGCCAACA  
CAGCAGACACAGGTGGGAGGCCCGAGGAGGGT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001244617  
**Insert Size:** 735 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001244617.1, NP_001231546.1</u>
<b>RefSeq Size:</b>	1719 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	14421
<b>Cytogenetics:</b>	10 74.5 cM
<b>Gene Summary:</b>	<p>Involved in the biosynthesis of gangliosides GM2, GD2 and GA2.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks several 3' exons but contains an alternate 3' exon, and thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (3) has a distinct and shorter C-terminus, compared to isoform 1.</p>