

## Product datasheet for MC210047

### B4galt6 (NM\_019737) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B4galt6 (NM\_019737) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** B4galt6  
**Synonyms:** AA536803; AU022389  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210047 representing NM\_019737  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTGCGCTCAAGCGGATGATGCGGGTCTCCAATCGCTCTCTGATTGCCTTCATCTTCTTCTTCTCCC  
 TCTCCACGTCTGTCTCTACTTCATCTATGTGGCTCCAGGCATCGCCAACACGTACCTCTTTATGGTACA  
 AGCTAGAGGTATCATGCTGAGAGAGAATGTGAAAACAATTGGACACATGATCAGGCTGTATACCAATAAA  
 AACACTACGCTCAACGGAACAGATTATCCTGAAGGCAATAATACAAGTACTATCTTGTTCAAACAACAA  
 CGTATCTTCCGCAAAACTTCACGTATTTGCCACACCTCCCTGTCCAGAGAAGCTGCCTTACATGCGGGG  
 ATTCCTCAGTGTCAATGTGAGTGAGATCAGTTTTGATGAAGTCCATCAGCTCTTCTCCAAGGACTCAGAG  
 ATGGGGCCAGGAGGCCACTGGAGGCCAAAGACTGCAAGCCCAGATGGAAGGTGGCAGTTCTCATCCCCT  
 TCCGTAACCGCCATGAACATCTCCGATTTTTTCTGCACCTGATCCGATGCTCCAGAAACAGCGGCT  
 GGAATTTGCCTTTTATGTCATCGAACAGACCGGCACACAACCATTCAATCGTGCGATGCTCTTTAATGTG  
 GGTTTTCAAAGAGGCCATGAAAGACAGAGCCTGGGACTGTGTGATCTTCCATGATGTGGATCATCTGCCTG  
 AAAATGATCGGAACTACTACGGATGTGGAGAGATGCCGCGCACTTTGACGCGAAGCTGGACAAGTACAT  
 GTACATCTTCCCTATAAGGAGTTTTTTGGTGGGGTGAAGTGGCCTGACGGTGGAGCAATTCAGGAAGATC  
 AACGGCTTTCCCAATGCCTTCTGGGGATGGGGAGGCGAGGACGATGACCTTTGGAACAGAGTTCACTACG  
 CCGGCTACAATGTAACCCGGCCAGAAGGGGACTTGGGAAAATACATATCTATTCTCATCCATCGAGG  
 GGAGGTACAGTTCCTAGGACGGTATAAATTACTTCGGTATTCCAAGGAGCGGCAGTACATCGATGGACTG  
 AACAAATTTATTATACACCCAAAATACTGTTGATAGGCTGTATACAAATATATCTGTAACCTCATGC  
 CAGAATTAGCTCCAATTGAAGACTATTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_019737
<b>Insert Size:</b>	1149 bp
<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>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>	<a href="#">NM_019737.2</a> , <a href="#">NP_062711.1</a>
<b>RefSeq Size:</b>	5808 bp
<b>RefSeq ORF:</b>	1149 bp
<b>Locus ID:</b>	56386
<b>UniProt ID:</b>	<a href="#">Q9WVK5</a>
<b>Cytogenetics:</b>	18 A2
<b>Gene Summary:</b>	Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:23882130, PubMed:30114188). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (PubMed:30114188).[UniProtKB/Swiss-Prot Function]