

Product datasheet for **MC210040**

B4galt5 (NM_019835) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: B4galt5 (NM_019835) Mouse Untagged Clone
Tag: Tag Free
Symbol: B4galt5
Synonyms: 9430078I07Rik; AW049941; AW539721
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210040 representing NM_019835
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGCGCCCGCGGGGCTGCTGCGGCTGCCGCGCCGCTCGCTGCTCGCCGCGCTTCTTCTTCTCGC
TGTCGTCCTCGTCTACTTCGTCATGTGGCGCCCGCATAGTGAACACCTACCTCTTCATGGTGCA
GGCTCAGGCATCTACTGCGGACAATGTGAGGACCATCGGTGCCAGGTGTACGAGCAGTGGTCCGC
AGCGCCTATGCCAAGAGGAACAGCAGCCTGAATGACTCAGATTATCCTCTGGACTTGAACCACAGTGAAG
CCTTTCCCAACCACGACCTTTCTTCTGAAGATTTACCTACTTTGCCAACCACCTTGGCCAGAGAG
GCTCCCTTCCATGAAGGGCCGATAGATATAAACATGAGTGAGATCGCAATGGACGATATTCATGAGCTG
TTCTCCAGAGACCCGGCCATTAAGCTCGGAGGGCACTGGAAGCCTGCAGACTGTGTGCCTCGGTGGAAGG
TGGCTATCCTCATCCCTTCCGGAACCGCCATGAGCACCTCCCGGTCTCCTGAGACACCTGCTCCCAT
GCTTCAGCGCCAGCGCTGCAGTTCGCCTTCTATGTGATCGAGCAAGTTGGCACCCAGCCCTTTAACCGA
GCCATGCTTTCAATGTTGGTTTTCAAGAAGCCATGAAGGACTTGGATTGGGATTGTCTGATCTTCCATG
ACGTCGATCACATACCTGAGAGTGACCGAACTACTATGGCTGCGGCGAGATGCCAGGCACTTTGCAAC
CAAGCTGGACAAGTACATGTACCTGCTGCCCTACACTGAGTTTTTTGGTGGCGTGAGCGGCCTGACTGTA
GAACAGTTTTCGGAAAATCAATGGCTTTCTAATGCCTTCTGGGGCTGGGCGGAGAGATGACGACTTGT
GGAACAGGGTACAAAATGCAGGCTATTCTGTGAGCCGGCCAGAAGGGGACACAGGAAAATACAAGTCCAT
TCCTCACCACCATCGAGGAGAGTCCAGTTTCTTGGCAGGTACGCTCTGCTGAGGAAGTCAAAGGAGCGG
CAAGGACTGGATGGCTCAACAACCTGAACACTCTGCGAATGTCACGTACGACGCCTTGTATAAAAAACA
TAACTGTCAACTTGACACCCGAGCTGGCTCAGGTGACTGAGT**ACTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_019835
Insert Size:	1167 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	<u>NM_019835.2</u> , <u>NP_062809.2</u>
RefSeq Size:	4205 bp
RefSeq ORF:	1167 bp
Locus ID:	56336
UniProt ID:	<u>Q9JMK0</u>
Cytogenetics:	2 H3
Gene Summary:	Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:21057870, 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). Plays a role in the glycosylation of BMPR1A and regulation of its protein stability (PubMed:29415997). Essential for extraembryonic development during early embryogenesis (PubMed:20574042, PubMed:21057870).[UniProtKB/Swiss-Prot Function]