

## Product datasheet for MR229531

### B4galt2 (NM\_001253381) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: B4galt2 (NM\_001253381) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: B4galt2  
 Synonyms: Ggtb2  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR229531 representing NM\_001253381  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAGACTGCTGGGGGGACGCTGGAGCGGGTCTGCAAGGCTGTGCTCCTTCTCTGCCTGCTGCACT  
 TCCTTGTGGCCGTCATCCTCTACTTTGACGTCTATGCCAGCACCTGGCCTTTTTTCAGCCGCTTCAGTAC  
 CCGAAGCCAGCCATGCCCTCTACCCTGCAGCCAGCAGCAGTACCAACTGCTCTCGGCCAACGCCACT  
 GCCGCTAGCTCCGGGCTGCCTGAAGTGCCAGTGCCAGGCTGGTCCCACAGCTCCAGTCATTCCGCCCT  
 GTCTGACGTGCCGCTGGTCTTGTGGCCGAGTGGTCATCGAATTCACCTCACCCATGCCTCTGGAACG  
 GGTGCAGAGGGAAAATCCAGGCGTGCTCCTGGGCGCCGCTATTCTCCACCCGACTGCACCCAGCCCAA  
 ACGGTGGCAGTCATATCCCTTTAGACACCGGGAGCACCACTACGCTATTGGCTCCACTATCTGCACC  
 CCATGTTGAGGCGGCAGCGGCTGCGCTACGGTGTCTATGTATCAACAGCATGGCGAGGAGACCTCAA  
 CCGAGCCAAGCTGCTCAACGTGGGCTTCTAGAGGCACTGAAGGAGGATGCTGCCTATGACTGCTTCATC  
 TTCAGTGATGTGGACCTGGTCCCTATGGATGACCGCAATCTGTACCGTTGTGGTACCAGCCCGCCACT  
 TTGCCATCGCCATGGACAAGTTTGGCTTCCGGTTGCCCTATGCTAGCTACTTTGGAGGTGTCTCGGGCT  
 GAGCAAGGCCAGTTTCTGAGGATCAATGGCTTCCCAACGAGTACTGGGGCTGGGTGGCGAGGATGAT  
 GACATCTTCAACCGGATCTCCCTGACTGGGATGAAGATCTCACGCCGGATGTCGGGATTGGCCGCTACC  
 GCATGATCAAGCACGACCGGGACAACATAACGAGCCCAACCCTCAGAGGTTTAATAAGATTCAAAACAC  
 AAAGATGAGCATGAAGTGGGACGCATTGGATCCGTGCGGTACCGAGTCTTGAAGTGTCTCGGCAACCG  
 CTCTTACCAACATCACAGTGGACATTGGACAGCCATGTCTGGCTCACTCAAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR229531 representing NM\_001253381  
Red=Cloning site Green=Tags(s)

MSRLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHLAFFSRFSTRSPAHALYPAASSSTNCSRPNAT  
AASSGLPEVPSARPGPTAPVIPPCPDVPPGLVGRVVIEFTSPMPLERVQRENPGVLLGGRYSPDCTPAQ  
TVAVIIPFRHREHLLRYWLHYLHPMLRRQRLRYGVYVINQHGEETFNRAKLLNVGFLEALKEDAAYDCF I  
FSDVDLVPMDDRNLYRCGDQPRHFAIAMDKFGFRLPYASYFGGVSGLSKAQFLRINGFPNEYWGWGGEDD  
DIFNRISLTGMKISRDPVIRGRYRMIKHDRDKHNEPNPQRFNKIQNTKMSMKWDGIGSVRYRVLEYSRQP  
LFTNITVDIGQPMSWLTQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001253381

**ORF Size:** 1107 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:** [NM\\_001253381.1](#), [NP\\_001240310.1](#)

**RefSeq Size:** 2467 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 53418

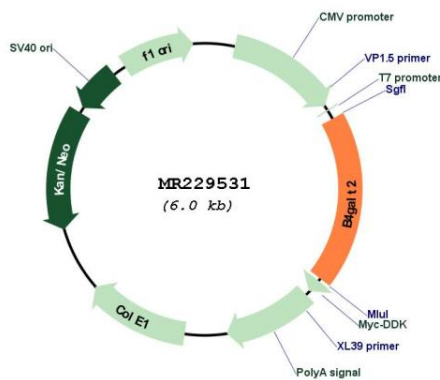
**UniProt ID:** [Q9Z2Y2](#)

**Cytogenetics:** 4 D2.1

**MW:** 41.9 kDa

**Gene Summary:** Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. Can produce lactose (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229531