

Product datasheet for MR215821

B4galt2 (NM_017377) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: B4galt2 (NM_017377) 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: >MR215821 representing NM_017377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGACTGCTGGGGGGACGCTGGAGCGGGTCTGCAAGGCTGTGCTCCTTCTCTGCCTGCTGCACT
 TCCTTGTGGCCGTCATCCTCTACTTTGACGTCTATGCCAGCACCTGGCCTTTTTTCAGCCGCTTCAGTAC
 CCGAAGCCAGCCATGCCCTCTACCCTGCAGCCAGCAGCAGTACCAACTGCTCTCGGCCAACGCCACT
 GCCGCTAGCTCCGGGCTGCTGAAGTGCCAGTGCCAGGCTGGTCCCACAGCTCCAGTCATTCCGCCCT
 GTCTGACGTGCCGCTGGTCTTGTGGCCGAGTGGTCATCGAATTCACCTCACCCATGCCTCTGGAACG
 GGTGCAGAGGGAAAATCCAGGCGTGCTCCTGGGCGCCGCTATTCTCCACCCGACTGCACCCAGCCCAA
 ACGGTGGCAGTCATATCCCTTTAGACACCGGGAGCACCACTACGCTATTGGCTCCACTATCTGCACC
 CCATGTTGAGGCGGCAGCGGCTGCGCTACGGTGTCTATGTATCAACAGCATGGCGAGGAGACCTTCAA
 CCGAGCCAAGCTGCTCAACGTGGGCTTCTAGAGGCACTGAAGGAGGATGCTGCCTATGACTGCTTCATC
 TTCAGTGATGTGGACCTGGTCCCTATGGATGACCGCAATCTGTACCGTTGTGGTACCAGCCCGCCACT
 TTGCCATCGCCATGGACAAGTTTGGCTTCCGGTTGCCCTATGCTAGCTACTTTGGAGGTGTCTCGGGCT
 GAGCAAGGCCAGTTTCTGAGGATCAATGGCTTCCCAACGAGTACTGGGGCTGGGTGGCGAGGATGAT
 GACATCTTCAACCGGATCTCCCTGACTGGGATGAAGATCTCACGCCGGATGTCGGATTGGCCGCTACC
 GCATGATCAAGCACGACCGGGACAACATAACGAGCCCAACCCTCAGAGGTTTAATAAGATTCAAAACAC
 AAAGATGAGCATGAAGTGGGACGCATTGGATCCGTGCGGTACCGAGTCTTGAAGTGTCTCGGCAACCG
 CTCTTACCAACATCACAGTGGACATTGGACAGCCATGTCTGGCTCACTCAAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR215821 representing NM_017377
Red=Cloning site Green=Tags(s)

MSRLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHLAFFSRFSTRSPAHALYPAASSSTNCSRPNAT
 AASSGLPEVPSARPGPTAPVIPPVCPDVPVGLVGRVVIETSPMPLERVQRENPGVLLGGRYSPDCTPAQ
 TVAVIIPFRHREHLLRYWLHYLHPMLRRQRLRYGVYVINQHGEETFNRKLLNVGFLEALKEDAAYDCFI
 FSDVDLVPMDRNLRYRCGDQPRHFAIAMDKFGFRLPYASYFGGVSGLSKAQFLRINGFPNEYWGWGGEDD
 DIFNRIISLTGMKISRDPVIRIGRYRMKHDRDKHNEPNPQRFNKIQNTKMSMKWDGIGSVRYRVLEVSRQP
 LFTNITVDIGQPMSWLTQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_017377

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_017377.5](#), [NP_059073.1](#)

RefSeq Size: 2432 bp

RefSeq ORF: 1110 bp

Locus ID: 53418

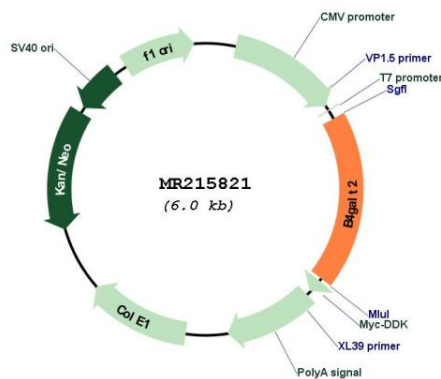
UniProt ID: [Q9Z2Y2](#)

Cytogenetics: 4 D2.1

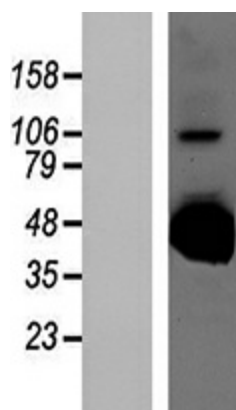
MW: 42.4 kDa

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]

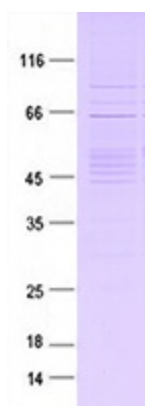
Product images:



Circular map for MR215821



Western validation with an anti-DDK antibody; L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified B4galt2 protein (Cat# [TP515821]). The protein was produced from HEK293T cells transfected with B4galt2 cDNA clone (Cat# MR215821) using MegaTran 2.0 (Cat# [TT210002]).