

Product datasheet for MR206183

B4galt3 (NM_020579) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4galt3 (NM_020579) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B4galt3
Synonyms:	9530061M23Rik; AA104562; AW125175; ESTM6; ESTM26; R74981
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206183 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCGGAGGCTGCTGGAGAGACCCTGTACATTGGCCCTGCTTGTGGGCTCCAACTGGCAGTGATGA
TGTATCTGTCACTAGGGGCTTCCGAAGTCTTAGTGCCCTGTTTGGTCGAGATCCGGGCCAACATTCGA
CTATTCTCATCCCACGATGTCTATAGTAACCTCAGTCACCTGCCCGCAGCCCTGGAGCTGCAGGGGCT
CCTCCGGCTCAAGCATTGCCCTACTGTCCAGAAAGATCACCTTCTTAGTGGTCTGTGTCAGTATCCT
TTAGCCCGGTGCCGCTACTAGCAGAGATTGTGGAGCGGAATCCCGGGTGAATCAGGGGCGGTACCG
TCCTGCAGGGTGTGAGCCTCGCTCCCGAACAGCCATAATTGTGCCCATCGTGCCCGGGAGCACACCTT
CGGCTGTGCTCTATCACCTGCACCCTTCTGTCAGCGCCAGCAGCTTGGTACGGCATTATGTATCACC
ACCAGGCTGGAATGGAACGTTTAAACAGGGCAAAGCTGTGAACGTAGGGGTGAGGGAAGCCCTTCGTGA
TGAAGAAATGGGACTGCTTGTCTTACACGACGTGGACCTCCTCCAGAAAACGACCATAACCTGTATGTG
TGCGACCCCGGGGACCCCGCCACGTTGCTGTTGCCATGAACAAGTTTGGATACAGCCTCCCGTACCCCC
AGTACTTTGGCGGAGTTTACGCGCTCACTCCCGACCAGTACCTGAAGATGAACGGCTTCCCAACGAGTA
CTGGGGCTGGGGTGGCGAGGATGACGACATTGCTACCAGGGTCCGCTGGCTGGGATGAAGATCTCTCGA
CCACCTACCTCTGTGGGACACTATAAGATGGTGAAGCACAGAGGGGATAAAGGAAATGAGGAAAATCCCC
ACAGATTTGACCTCCTGGTCCGTACCCAGAATTCTTGGACACAAGATGGAATGAACTCACTAACGTACCG
ACTGCTGGCAAGAGAGCTGGGTCTCTCTATACCAACATCACTGCAGACATCGGGACTGACCCTCGGGGT
CCCCGGTCTCCCTCTGGTCCCCGATACCCACAGGTTCTCCAGGCCTCCGTCAAGAGATGCTGCAAC
GCCGGCCCCAGCTAGGCCTGGCCCTCTGCCACTGCCAACACACAGCTCCCGTGGCTCACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206183 protein sequence
 Red=Cloning site Green=Tags(s)

MLRRLLERPCTLALLVGSQAVMMYLSLGGFRSLSALFGRDPGPTFDYSHPHDVYNSLSHLPAAPGAAGA
 PPAQALPYCPERSPFLVGPVSVSFSVPVSLAEIVERNPRVESGGRYRYPAGCEPRSRTAIIIVPHRAREHHL
 RLLL YHLHPFLQRQQLAYGIYVIHQAGNGTFNRAKLLNVGVREALRDEEDWCLFLHDVDLLPENDHNLVY
 CDPGRPRHVAVAMNKFYSLPYPQYFGGVSALTPDQYLKMNGFPNEYWGWGEDDDIATRVRLAGMKISR
 PPTSVGHYKMKVHRGDKNEENPHRFDLLVVRTQNSWTQDGMNSLTYRLLARELGPLYTNIATDIGTDPGR
 PRSPSGPRYPGSSQAFRQEMLQRRPPARPGLPTANHTAPRGS

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_020579

ORF Size: 1188 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_020579.1](#), [NM_020579.2](#), [NP_065604.1](#)

RefSeq Size: 1998 bp

RefSeq ORF: 1188 bp

Locus ID: 57370

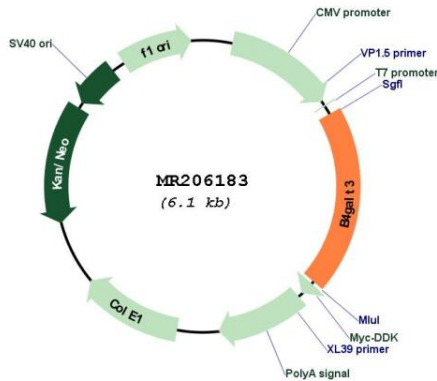
UniProt ID: [Q91YY2](#)

Cytogenetics: 1 79.29 cM

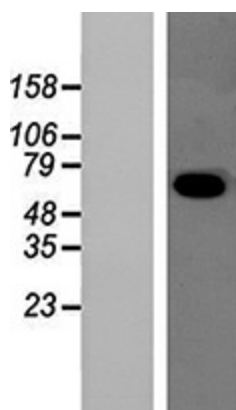
MW: 44.1 kDa

Gene Summary: Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206183



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



Coomassie blue staining of purified B4galt3 protein (Cat# [TP506183]). The protein was produced from HEK293T cells transfected with B4galt3 cDNA clone (Cat# MR206183) using MegaTran 2.0 (Cat# [TT210002]).