

Product datasheet for **RC228418**

B4GALNT2 (NM_001159387) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALNT2 (NM_001159387) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B4GALNT2
Synonyms:	B4GALT; GALGT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228418 representing NM_001159387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTTCGGGGCGCTCGAGATTCTGTGGCTCCTCAAGATATTGGTCATAATCCTGGTACTTGGCATTG
 TTGGATTTATGTTCGGAAGCATGTTCTTCAAGCAGTGTTCAGCAGCCCCAAGCCAGAACCCTCAAGTCC
 TGCCCCGGGTGTCCAGAAGCTGAAGCTTCTGCCTGAGGAACGTCTCAGGAACCTCTTTCTACGATGGA
 ATCTGGCTGTTCCCGAAAAATCAGTGCAAATGTGAAGCCAACAAAGAGCAGGGAGGTTACAACCTTCAGG
 ATGCCTATGGCCAGAGCGACCTCCAGCGGTGAAAGCGAGGAGACAGGCTGAATTTGAACACTTTTCAGAG
 GAGAGAAGGGCTGCCCGCCACTGCCCTGCTGGTCCAGCCAACTCCCTTTGGGTACCCAGTCCAC
 GGAGTGGAGGTGATGCCCTGCACAGGTTCCCATCCAGGCTCCAGTTTGAAGACCCGATGCCCCCG
 TCTATGAGGTACCCTGACAGCTTCTCTGGGGACTGAACACCCTTGTGATGTCCAGACAGTGTGGT
 GCAGGGCAGAGGCCAGAAGCAGCTGATCATTTCTACCAGTGACCGGAAGCTGTTGAAGTTCATTCTTCAG
 CAGTGTACATACACCAGCACGGGTACCAGCACCAGAAGGTAGACATAGTGAGTCTGGAGTCCAGGTCTCT
 CAGTGGCCAAGTTTCCAGTGACCATCCGCCATCCTGTCATACCCAAGCTATACGACCTGGACCAGAGAG
 GAAGCTCAGAAACCTGGTTACCATTGCTACCAAGACTTCTCCGCCCCACAAGCTCATGATCATGCTC
 CGGAGTATTCGAGAGTATTACCCAGACTTGACCGTAATAGTGGCTGATGACAGCCAGAAGCCCCTGGAAA
 TTAAGACAATCACGTGGAGTATTACACTATGCCCTTTGGGAAGGGTGGTTTGTGGTAGGAACCTGGC
 CATATCTCAGGTCACCACCAAATACGTTCTCTGGTGGACGATGATTTTCTTCAACGAGGAGACCAAG
 ATTGAGGTGCTGGTGGATGCTCTGGAGAAAACAGAAGTGGACGTGGTGGTGGCAGTGTGCTGGGAAATG
 TGTCCAGTTTAAAGTTGTTGCTGGAACAGAGTGAGAATGGGCTGCCTTCAAGAGGATGGGATTTT
 CCAACCCCTGGATGGCTTCCCAGCTGCGTGGTACCAGTGGCGTGGTCAACTTCTTCCGCCACACG
 GAGCGACTCCAAAGAGTTGGCTTTGATCCCGCTGCAACGAGTGGCTCACTCAGAATTCTTATTGATG
 GGCTAGGGACCCTACTCGTGGGTGATGCCCAGAAGTATTATAGGTACCAGTCTCGGTCTCCAGTGGT
 GGACTCAGAACTGGCTGCCCTAGAGAAGACCTACAATACATACCGGTCCAACACCCTCACCCGGTCCAG
 TTCAAGCTGGCCCTCCACTACTTCAAGAACCATCTCCAATGTGCCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228418 representing NM_001159387
 Red=Cloning site Green=Tags(s)

MTSGSRFLWLLKILVIIIVLIVGFMFGSMFLQAVFSSPKPELPSAPGVQKLKLLPEERLRLNLSYDG
 IWLFPKNQCKCEANKEQGGYNFQDAYGQSDLPAVKARRQAEFEHFQRREGLPRPLLLVQPNLPGYYPVH
 GVEVMPHHTVPIPLGLQFEGPDAPVYEVTLTASLGTNLNLADVDPDSVVQGRGQQLIISTDRKLLKFIQ
 HVTYTTSTGYQHVKVDIVSLESRSSVAKFPVTIRHPVIPKLYDPGPERKLRNLVTIATKTFLRPHKLMIML
 RSIREYYPDLTVIVADDSQKPLEIKDNHVEYTMPFGKWFAGRNLAISQVTTYVYLVWDDDFLNEETK
 IEVLDVLEKTELDVVGGSVLGNVVFQKLLLEQSENGACLHKRMGFFQPLDGFPSVVTSGVNVFFLAHT
 ERLQRVGFDPRLQRVAHSEFFIDGLGTLVVGSCPEVIIGHQSRSPVVDSELAALEKTYNTYRSNTLTRVQ
 FKLALHYFKNHLQCAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_a12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001159387

ORF Size: 1518 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_001159387.2](#)

RefSeq ORF: 1521 bp

Locus ID: 124872

UniProt ID: [Q8NHY0](#)

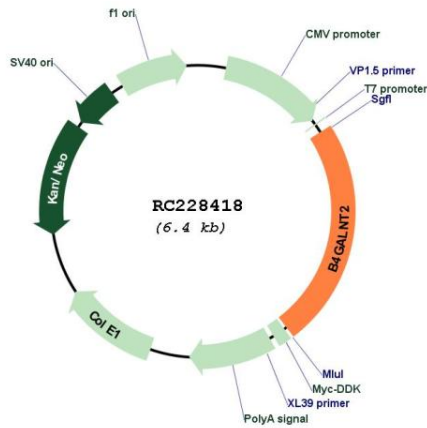
Cytogenetics: 17q21.32

Protein Families: Transmembrane

MW: 56.9 kDa

Gene Summary: B4GALNT2 catalyzes the last step in the biosynthesis of the human Sd(a) antigen through the addition of an N-acetylgalactosamine residue via a beta-1,4 linkage to a subterminal galactose residue substituted with an alpha-2,3-linked sialic acid. B4GALNT2 also catalyzes the last step in the biosynthesis of the Cad antigen (Montiel et al., 2003 [PubMed 12678917]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC228418