

Product datasheet for **RG228418**

B4GALNT2 (NM_001159387) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | B4GALNT2 (NM_001159387) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | B4GALNT2 |
| Synonyms: | B4GALT; GALGT2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG228418 representing NM_001159387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTTCGGGGCGCTCGAGATTCTGTGGCTCCTCAAGATATTGGTCATAATCCTGGTACTTGGCATTG
 TTGGATTTATGTTCGGAAGCATGTTCTTCAAGCAGTGTTCAGCAGCCCCAAGCCAGAACCCTCAAGTCC
 TGCCCCGGGTGTCCAGAAGCTGAAGCTTCTGCCTGAGGAACGTCTCAGGAACCTCTTTCTACGATGGA
 ATCTGGCTGTTCCCGAAAAATCAGTGCAAATGTGAAGCCAACAAAGAGCAGGGAGGTTACAACCTTCAGG
 ATGCCTATGGCCAGAGCGACCTCCAGCGGTGAAAGCGAGGAGACAGGCTGAATTTGAACACTTTTCAGAG
 GAGAGAAGGGCTGCCCGCCACTGCCCTGCTGGTCCAGCCAACTCCCCTTTGGGTACCCAGTCCAC
 GGAGTGGAGGTGATGCCCTGCACAGGTTCCCATCCAGGCCTCCAGTTTGAAGACCCGATGCCCCCG
 TCTATGAGGTACCCTGACAGCTTCTCTGGGGACTGAACACCCTTGTGATGTCCAGACAGTGTGGT
 GCAGGGCAGAGGCCAGAAGCAGCTGATCATTTCTACCAGTGACCGGAAGCTGTTGAAGTTCATTCTTCAG
 CAGGTGACATACACCAGCACGGGTACCAGCACCAGAAGGTAGACATAGTGAGTCTGGAGTCCAGGTCTCT
 CAGTGGCCAAGTTTCCAGTGACCATCCGCCATCCTGTCATACCCAAGCTATACGACCTGGACCAGAGAG
 GAAGCTCAGAAACCTGGTTACCATGCTACCAAGACTTCTCCGCCCCACAAGCTCATGATCATGCTC
 CGGAGTATTCGAGAGTATACCCAGACTTGACCGTAATAGTGGCTGATGACAGCCAGAAGCCCCTGGAAA
 TTAAGACAATCACGTGGAGTATTACACTATGCCCTTTGGGAAGGGTGGTTTGTGGTAGGAACCTGGC
 CATATCTCAGGTCACCACCAAATACGTTCTCTGGTGGACGATGATTTTCTTCAACGAGGAGACCAAG
 ATTGAGGTGCTGGTGGATGCTCTGGAGAAAACAGAAGTGGACGTGGTGGTGGCAGTGTGCTGGAAATG
 TGTCCAGTTAAGTTGTTGCTGGAACAGAGTGAAGAATGGGCCCTGCCTTCACAAGAGATGGGATTTT
 CCAACCCCTGGATGGCTTCCCAGCTGCGTGGTGAACAGTGGCGTGGTCAACTTCTCTGGCCACAG
 GAGCGACTCCAAAGAGTTGGCTTTGATCCCGCCTGCAACGAGTGGCTCACTCAGAATTCTCATTGATG
 GGCTAGGGACCCTACTCGTGGGGTTCATGCCCAGAAGTATTATAGGTACCAGTCTCGGTCTCCAGTGGT
 GGACTCAGAACTGGCTGCCCTAGAGAAGACCTACAATACATACCGGTCCAACACCCTCACCCGGTCCAG
 TTCAAGCTGGCCCTCCACTACTTCAAGAACCATCTCCAATGTGCCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228418 representing NM_001159387
 Red=Cloning site Green=Tags(s)

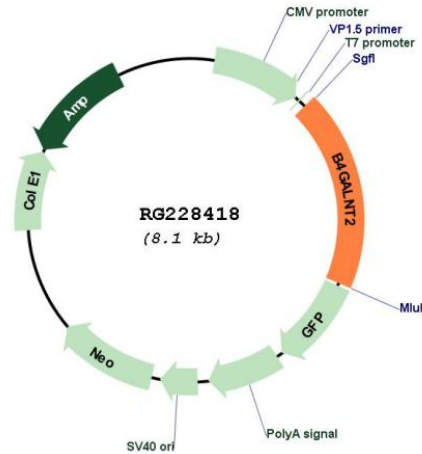
MTSGGSRFLWLLKILVIIILVIGVFMFGSMFLQAVFSSPKPELPSAPGVQKLKLLPEERLRNLFSDG
 IWLFPKNQCKCEANKEQGGYNFQDAYGQSDLPVAVKARRQAEFEHFQRREGLPRPLPLLVQPNLPGYYPVH
 GVEVMPHLHTVPIPLQFEGPDAPVYEVTLTASLGTNLTLADVPDSVVQGRGQQLIISTDRKLLKFIQ
 HVTYTSSTGYQHVKVIVSLESRSSVAKFPVTIRHPVIPKLYDPGPERKLRNLVTIATKTLRPHKLMIML
 RSIREYYPDLTVIVADDSQKPLEIKDNHVEYYTMPFGKGFAGRNLAISQVTTKYVLWVDDDFLFNEETK
 IEVLVDVLEKTELDVVGGSVLGNVVFQKLLLEQSENGACLHKRMGFFQPLDGFPSVVTSGVNVFFLAHT
 ERLQRVGFDPRLQRVAHSEFFIDGLGTLVGVSCPEVIIGHQSRSPVVDSELAALEKTYNTYRSNTLTRVQ
 FKLALHYFKNHLQCAA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



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 Size: 1806 bp

RefSeq ORF: 1521 bp

Locus ID: 124872

UniProt ID: [Q8NHY0](#)

Cytogenetics: 17q21.32

Protein Families: Transmembrane

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]