OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC327053

B4GALNT2 (NM_001159387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALNT2 (NM_001159387) Human Untagged Clone
Tag:	Tag Free
Symbol:	B4GALNT2
Synonyms:	B4GALT; GALGT2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_001159387, the custom clone sequence may differ by one or more nucleotides

ATGACTTCGGGCGGCTCGAGATTTCTGTGGCTCCTCAAGATATTGGTCATAATCCTGGTA
CTTGGCATTGTTGGATTTATGTTCGGAAGCATGTTCCTTCAAGCAGTGTTCAGCAGCCCC
AAGCCAGAACTCCCAAGTCCTGCCCCGGGTGTCCAGAAGCTGAAGCTTCTGCCTGAGGAA
CGTCTCAGGAACCTCTTTTCCTACGATGGAATCTGGCTGTTCCCGAAAAATCAGTGCAAA
TGTGAAGCCAACAAAGAGCAGGGAGGTTACAACTTTCAGGATGCCTATGGCCAGAGCGAC
CTCCCAGCGGTGAAAGCGAGGAGACAGGCTGAATTTGAACACTTTCAGAGGAGAGAAGGG
CTGCCCCGCCCACTGCCCCTGCTGGTCCAGCCCAACCTCCCCTTTGGGTACCCAGTCCAC
GGAGTGGAGGTGATGCCCCTGCACACGGTTCCCATCCCAGGCCTCCAGTTTGAAGGACCC
GATGCCCCCGTCTATGAGGTCACCCTGACAGCTTCTCTGGGGACACTGAACACCCTTGCT
GATGTCCCAGACAGTGTGGTGCAGGGCAGAGGCCAGAAGCAGCTGATCATTTCTACCAGT
GACCGGAAGCTGTTGAAGTTCATTCTTCAGCACGTGACATACACCAGCACGGGGTACCAG
CACCAGAAGGTAGACATAGTGAGTCTGGAGTCCAGGTCCTCAGTGGCCAAGTTTCCAGTG
ACCATCCGCCATCCTGTCATACCCAAGCTATACGACCCTGGACCAGAGAGGAAGCTCAGA
AACCTGGTTACCATTGCTACCAAGACTTTCCTCCGCCCCCACAAGCTCATGATCATGCTC
CGGAGTATTCGAGAGTATTACCCAGACTTGACCGTAATAGTGGCTGATGACAGCCAGAAG
CCCCTGGAAATTAAAGACAATCACGTGGAGTATTACACTATGCCCTTTGGGAAGGGTTGG
TTTGCTGGTAGGAACCTGGCCATATCTCAGGTCACCACCAAATACGTTCTCTGGGTGGAC
GATGATTTTCTCTTCAACGAGGAGACCAAGATTGAGGTGCTGGTGGATGTCCTGGAGAAA
ACAGAACTGGACGTGGTAGGCGGCAGTGTGCTGGGAAATGTGTTCCAGTTTAAGTTGTTG
CTGGAACAGAGTGAGAATGGGGCCTGCCTTCACAAGAGGATGGGATTTTTCCAACCCCTG
GATGGCTTCCCCAGCTGCGTGGTGACCAGTGGCGTGGTCAACTTCTTCCTGGCCCACACG
GAGCGACTCCAAAGAGTTGGCTTTGATCCCCGCCTGCAACGAGTGGCTCACTCAGAATTC
TTCATTGATGGGCTAGGGACCCTACTCGTGGGGTCATGCCCAGAAGTGATTATAGGTCAC
CAGTCTCGGTCTCCAGTGGTGGACTCAGAACTGGCTGCCCTAGAGAAGACCTACAATACA
TACCGGTCCAACACCCTCACCCGGGTCCAGTTCAAGCTGGCCCTCCACTACTTCAAGAAC
CATCTCCAATGTGCCGCA

Restriction Sites: Please inquire

ACCN: NM_001159387

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001159387.1, NP_001152859.1
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] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a.