

Product datasheet for **SC123611**

A4GALT (BC017068) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | A4GALT (BC017068) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | A4GALT |
| Synonyms: | A4GALT1; A14GALT; alpha-1,4-N-acetylglucosaminyltransferase; alpha4Gal-T1; CD77 synthase; GB3 synthase; P(k) antigen synthase; P1; P1/Pk synthase; P blood group (P one antigen); PK; UDP-galactose:beta-D-galactosyl-beta1-R 4-alpha-D-galactosyltransferase |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Cell Selection: | None |



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Fully Sequenced ORF:

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>OriGene sequence for BC017068 edited
CGCGCCGCCCGCCGCCCGCTGGAGCTAGAGATGGATTTGCAGCCGCTGCAAGTGTGT
GGAAGGGCCGTGTTCTGTGTTGGCAAAGAAGGTCGGCTGCTGAGCCAGGGCGTGTCTCCG
GAGGCCTGTGGGTGCCAGGATCCCCACCTCTCTGCAATGGGTGCCAGGCTGACCAGC
CGTTCCTGTGGAAGCTCCTGGTCTGATCTGGGATACCATGTCCAAGCCCCCGACCT
CCTGCTGCGGCTGCTCCGGGGCGCCCAAGGCAGCGGGTCTGCACCCTGTTTCATCATCG
CTTCAAGTTCACGTTTTTTCGTCTCCATCATGATCTACTGGCACGTTGTGGGAGAGCCCAA
GGAGAAAGGGCAGCTCTATAACCTGCCAGCAGAGATCCCCTGCCACCTTGACACCCCC
CACCCACCTCCACAGGCCCACTCCAGGCAACATCTTCTTCTGGAGACTTCAGACCG
GACCAACCCCACTTCTGTTCATGTGCTCGGTGGAGTCGGCCGCCAGAACTCACCCGA
ATCCCACGTGCTGGTCTGATGAAAGGGCTTCCGGGTGGCAACGCCTCTCTGCCCGGCA
CCTGGGCATCTCACTTCTGAGCTGCTTCCCGAATGTCCAGATGCTCCCGTGGACCTGCG
GGAGCTGTTCCGGGACACACCCCTGGCCGACTGGTACGCGGCCGTGCAGGGGCGTGGGA
GCCCTACCTGCTGCCGTGCTCTCCGACGCTCCAGGATCGACTCATGTGGAAGTTCGG
CGGCATCTACCTGGACACGGACTTCATTGTTCTCAAGAACCTGCGGAACCTGACCAACGT
GCTGGGACCCAGTCCCCTACGTCCTCAACGGCGGTTCTGGCCTTCGAGCGCCGGCA
CGAGTTTATGGCGCTGTGCATGCGGGACTTCGTGGACACTACAACGGCTGGATCTGGGG
TCACCAGGGCCCGCAGCTGCTCACGCGGGTCTTCAAGAAGTGGTGTTCATCCGACGCT
GGCCGAGAGCCGCGCTGCCGCGCGTCAACCACCTGCCCCCTGAGGCCTTCTACCCAT
CCCCTGGCAGGACTGGAAGAAGTACTTTGAGGACATCAACCCGAGGAGCTGCCGCGCT
GCTCAGTGCCACCTATGCTGTCCACGTGTGGAACAAGAAGAGCCAGGGCACGCGGTTCA
GGCCACGTCCAGGGCACTGCTGGCCAGCTGCATGCCCGCTACTGCCACGACGCACGA
GGCACTGAAAATGTACTTGTGAGGGGCCCGCCAGGTACCTCCCCAACCTGCTCCTGATG
GGCACTGGGCCGCCCTTCCCGGGAGGCAAGATTGAGGGCCCGGAGAGGGAGGCCCGA
GCTGCCACCGGGCTTAGGCAGGCTGTTGAGGAGCTGTGGGAGCAGGCCAGTGGGAGGCT
GTGGACACCCGAGGACAGTGTCTGTCTCGAGGCAGGGCTGACACATGGTGCCATAGCC
AGCGGAGGGCGCTCAGTGAGTGCCCGGGCCTTCTAGACAACAGGCAGGAAGGATGAACC
TCAGGGCACCCCAAGTGGTGGGAAAGCCAGGCAGTTGGGACAGAGGTGCCACGAGGG
CAGAGGCCGCTGCTAAGGGGATGGGGAAGAAGGACAAGATTCCCAGAGAGGAGAGGAGG
CTGTTGGTAGGAAAGTGGCAGGGCTGGGGGAGACCCAGCCCAAGGTCCGGGGCGGAGG
ATGCTTTGTTCTTTTCTGGTTTTGGTTCCTCTTTCGCGGGGGTGGGGAGGTCAACAGG
GACTGAGTGGGGCAGAGGCCAGAAGTGCCAGCCTGGGGAGCCGTTTGGGGCAGCCCT
TCTGCCACCCCATCCTTCTTCTCCTCCAGAGATGCCAGGGGGCGTGTATGCTTACCC
CTTCCCTCAGACAGGGGCTGGGTGGGGAGGCTCTTTAGGCTCAGGAGAAGCATTTAAAG
AAACCCACCCCTGCCGCCGCATTATAAACACAGGAGAATAATCAATAGAATAAAAGTG
ACCGACTGTCAAAAAAAAAAAAAA
    
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| 5' Read Nucleotide Sequence: | >OriGene 5' read for BC017068 unedited TTAGGGCGGGCCGCGATTCCCGGGATATCGTCGACCCACGCGTCCGCGGACGCGTGGGGCGCGCCGCCCGCCCGCCGCTGGAGCTAGAGATGGATTTGCAGCCGCTGCAAGTGTGTGAAGGGCCGTGTTTCGTGTTGGCAAAGAAGGTCGGCTGCTGAGCCAGGGCGTGTCTCCCGGAGGCTGTGGGCTGCCAGGATCCCCACCTCTCTGCAATGGGCTGCCAGGCTGACCAGCCGTTCTCTGCTGGAAGCTCCTGGTCTGATCTGGGGATACCATGTCCAAGCCCCCGACTCTTGCTGCGGCTGCTCCGGGGCGCCCAAGGCAGCGGGTCTGCACCCTGTTTCATCATCGGCTCAAGTTCACGTTTTTCGTCTCCATCATGATCTACTGGCACGTTGTGGGAGAGCCCAAGGAGAAAGGGCAGCTCTATAACCTGCCAGCAGAGATCCCCTGCCCCACCTTGACACCCCCCACCCCACCTCCCACGGCCCACTCCAGGCAACATCTTCTTCTGGAGACTTCAGACCCGGAACAACCCCAACTTCTGTTCATGTGCTCGGTGGAGTCGGCCGCCAGAACTCACCCGAATCCCACGTGCTGGTCTGATGAAAGGGCTTCCGGGTGGCAACGCCTCTGCCCCGGCACC TGGGCATCTCACTTCTGAGCTGCTTCCCGAATGTCCAGATGCTCCCGCTGGACCTGCGGGAGCTGTTCCGGGACACACCCTGGCCGACTGGTACGCGGCCGTGCAGNGCGCTGGGAGCCCTACCTGCTGCCGTGCTCTCCGACGCCTCCAGGATCGCACTCATGTGGAAGTTCGGCGCATCTACCTGGNACACGACTTCATTGTTCTCAAGACC |
| Restriction Sites: | Please inquire |
| ACCN: | BC017068 |
| Insert Size: | 2077 bp |
| 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). |
| 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: | <ol style="list-style-type: none"> 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: | BC017068.2 , AAH17068.1 |
| RefSeq Size: | 2065 bp |
| Locus ID: | 53947 |
| Cytogenetics: | 22q13.2 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Glycosphingolipid biosynthesis - globo series, Metabolic pathways |

Gene Summary:

The protein encoded by this gene catalyzes the transfer of galactose to lactosylceramide to form globotriaosylceramide, which has been identified as the P(k) antigen of the P blood group system. This protein, a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]