

## Product datasheet for **SC108092**

### A4GALT (NM\_017436) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	A4GALT (NM_017436) Human Untagged Clone
Tag:	Tag Free
Symbol:	A4GALT
Synonyms:	A4GALT1; A14GALT; Gb3S; P(k); P1; P1PK; PK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108092 sequence for NM_017436 edited (data generated by NextGen Sequencing)

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ATGTCCAAGCCCCGACCTCCTGCTGCGGCTGCTCCGGGGCGCCCCAAGCAGCGGGT  
TGCACCCGTGTTTCATCATCGGCTTCAAGTTCACGTTTTTCGTCTCCATCATGATCTACTGG  
CACGTTGTGGGAGAGCCCAAGGAGAAAGGGCAGCTCTATAACCTGCCAGCAGAGATCCCC  
TGCCCCACCTTGACACCCCCACCCACCTCCCACGGCCCCACTCCAGGCAACATCTTC  
TTCCTGGAGACTTACAGACCGGACCAACCCCAACTTCTGTTTCATGTGCTCGGTGGAGTCG  
GCCGCCAGAACTCACCCGAATCCCACGTGCTGGTCTGATGAAAGGGCTTCCGGGTGGC  
AACGCCTCTGCCCCGGCACCTGGGCATCTCACTTCTGAGCTGCTTCCGAATGTCCAG  
ATGCTCCCGCTGGACCTGCGGGAGCTGTTCCGGGACACACCCCTGGCCGACTGGTACGCG  
GCCGTGCAGGGGGCTGGGAGCCCTACCTGCTGCCGTGCTCTCCGACGCTCCAGGATC  
GCACTCATGTGGAAGTTCGGCGGCATCTACCTGGACACGACTTCATTGTTCTCAAGAAC  
CTGCGGAACCTGACCAACGTGCTGGGCACCCAGTCCCCTACGTCTCAACGGCGCGTTC  
CTGGCCTTCGAGCGCCGGCACGAGTTCATGGCGCTGTGCATGCGGGACTTCGTGGACCAC  
TACAACGGCTGGATCTGGGGTACCAGGGCCCGCAGCTGCTCACGCGGTCTTCAAGAAG  
TGGTGTTCATCCGCAGCCTGGCCGAGAGCCGCGCTGCCGCGGGTCCACCCTGCC  
CCTGAGGCCTTACCCCATCCCCTGGCAGGACTGGAAGAAGTACTTTGAGGACATCAAC  
CCCCGAGGAGCTGCCGCGGCTGCTCAGTGCCACCTATGCTGTCCACGTGTGGAACAAGAAG  
AGCCAGGGCACGCGGTTTCGAGGCCACGTCCAGGGCACTGCTGGCCAGCTGCATGCCCGC  
TACTGCCCCACGACGCACGAGGCCATGAAAATGTACTTGTGA
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Clone variation with respect to NM\_017436.4



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_017436 unedited NGGTGTCAAATTTGTAACATATAGCGGCCGNAATTCGGGATATCGTCGACC CACGCGTCCGCGGACGCGTGGGCGCGCCCGCCCGCCCGCTGGAGCTAGAGATGGA TTTGCAGCCGCTGCAAGTGTGTGGAAGGGCCGTGTTCTGTGTTGGCAAAGAAGGTCGGCTG CTGAGCCAGGGCGTGTCTCCGGAGGCTGTGGGCTGCCAGGATCCCCACCTCTCTGCAA TGGGCTGCCAGGCTGACCAGCCGGTTCCTGCTGGAAGCTCCTGGTCTGATCTGGGGATA CCATGTCCAAGCCCCCGACCTCCTGCTGCGGCTGCTCCGGGGCGCCCAAGGCAGCGGG TCTGCACCTGTTTCATCATCGGCTTCAAGTTCAGTTTTTCGTCTCCATCATGATCTACT GGCACGTTGTGGGAGAGCCCAAGGAGAAAAGGGCAGCTCTATAACCTGCCAGCAGAGATCC CCTGCCACCTTGACACCCCCACCCACCTCCACGGCCCCACTCCAGGCAACATCT TCTTCTGGAGACTTCAGACCGGACCAACCCAACTTCTGTTTCATGTGCTCGGTGGAGT CGGCCGCCAGAATCACCCGAATCCCACGTGCTGGTCTGATGAAAGGGCTTCCGGGTG GCAACGCCTCTGCCCCGGCACCTGGGCATCTCACTTCTGAGCTGCTTCCCGAATGTCC AGATGCTCCCGCTGGACCTGCGGGAGCTGTTCCGGGACACACCCCTGGCCGACTGGTACG CGGCCGTGCAGGGGCGCTGGGAGCCCTACCTGCTGCCCGTCTCCGACGCCTCCAGAA TCGCACTCATGTTGGAAGTTCGGCGGCATCTACCTGGNACACGACTTCT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_017436
<b>Insert Size:</b>	2000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_017436.4</a> , <a href="#">NP_059132.1</a>
<b>RefSeq Size:</b>	2106 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	53947
<b>UniProt ID:</b>	<a href="#">Q9NPC4</a>
<b>Cytogenetics:</b>	22q13.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	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]

Transcript Variant: This variant (1) encodes the supported protein. Variants 1 and 2 encode the same protein.