

## Product datasheet for **RG202259**

### **A4GALT (NM\_017436) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** A4GALT (NM\_017436) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** A4GALT  
**Synonyms:** A4GALT1; A14GALT; Gb3S; P(k); P1; P1PK; PK  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202259 representing NM\_017436  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGTCCAAGCCCCGACCTCCTGCTGCGGCTGCTCCGGGGCGCCCAAGGCAGCGGGTCTGCACCCTGT  
 TCATCATCGGCTTCAAGTTCACGTTTTTCGTCCTCATGATCTACTGGCACGTTGTGGGAGAGCCAA  
 GGAGAAAGGGCAGCTCTATAACCTGCCAGCAGAGATCCCCTGCCACCTTGACACCCCCACCCACCC  
 TCCCACGGCCCCACTCCAGGCAACATCTTCTTCTGGAGACTTACAGCCGGACCAACCCCAACTTCTGT  
 TCATGTGCTCGGTGGAGTCGGCCGCCAGAACTCACCCGAATCCCACGTGCTGGTCTGATGAAAGGGCT  
 TCCGGGTGGCAACGCCTCTGCCCCGGCACCTGGGCATCTCACTTCTGAGCTGCTTCCGAATGTCCAG  
 ATGCTCCCCTGGACCTGCGGGAGCTGTTCCGGGACACACCCCTGGCCGACTGGTACGCGCCGTGCAGG  
 GGCGTGGGAGCCCTACCTGCTGCCCGTCTCCGACGCCTCCAGGATCGCACTCATGTGGAAGTTCGG  
 CGGCATCTACCTGGACACGGACTTCATTGTTCTCAAGAACCTGCGGAACCTGACCAACGTGCTGGGCACC  
 CAGTCCCCTACGTCCTCAACGGCGCTTCTGGCCTTCGAGCGCCGGCACGAGTTCATGGCGCTGTGCA  
 TGCGGGACTTCGTGGACCACTACAACGGCTGGATCTGGGGTACCAGGGCCCGCAGCTGCTCACGGGT  
 CTTCAAGAAGTGGTGTTCATCCGCAGCCTGGCCGAGAGCCGCGCTGCCGCGCGTCAACCCGAGGACC  
 CCTGAGGCCTTACCCATCCCCTGGCAGGACTGGAAGAAGTACTTTGAGGACATCAACCCGAGGAGC  
 TGCCGCGGCTGCTCAGTGCCACCTATGCTGTCCACGTGTGGAACAAGAAGGCCAGGGCACGCGGTTTCA  
 GGCCACGTCCAGGGCACTGCTGGCCAGCTGCATGCCCGTACTGCCCCAGCACGACGAGGCCATGAAA  
 ATGTAATTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202259 representing NM\_017436  
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```
MSKPPDLLLRLLRGAPRQVCTLFIIIGFKFTFFVSIMIIYWHVVGEPKEKGQLYNLPAEIPCPTLTPPTPP
SHGPTPGNIFFLETSDRTNPNFLFMCVESAARTHPESHVLVLMKGLPGGNASLPRHLGISLLSCFPNVQ
MLPLDLRELFDRDTPLADWYAAVQGRWEPYLLPVLSDASRIALMWKFGGIYLDTFIVLKNLRLTNVLTGT
QSRVYVNLGAFALAFERRHEFMALCMRDFVDHYNGWIWGHQGPQLL TRVFKKWCSIRSLAESRACRGVTTLP
PEAFYPIPWQDWKKYFEDINPEELPRLLSATYAVHVWNKKSQGTRFEATSRALLAQLHARYCPTTHEAMK
MYL
```

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017436

**ORF Size:** 1059 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\\_017436.7](#)

**RefSeq Size:** 2106 bp

**RefSeq ORF:** 1062 bp

**Locus ID:** 53947

**UniProt ID:** [Q9NPC4](#)

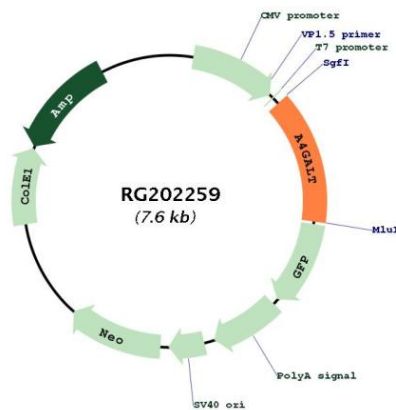
**Cytogenetics:** 22q13.2

**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]

### Product images:



Circular map for RG202259