

## Product datasheet for **MC228364**

### **Pomgnt2 (NM\_001289559) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pomgnt2 (NM_001289559) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pomgnt2
Synonyms:	Ago61; C85492; Gtdc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228364 representing NM\_001289559  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCACCTCTCTGCCGTATTCAACGCCCTCTGGTATCAGTGCTGGCTGCGGTCCTGTGGAAGCATGTTCC  
 GGTTGCGGGAGCATGCGGCCACGCTAGAGGAGGAGCTGGCCCTTGACAGCAGTCCCTGGATCCAGTCCT  
 AGGACTGAAGATCGACTACCCGAAGGCCCTGCAGATCCTCATGGAGGGCGGCACCCACATGGTGTGCACA  
 GGCCGCACCCACAGGACCGCATCTGCCGCTTCAAGTGGCTCTGCTACTCCAATGAGGCCGAAGAATTCA  
 TCTTTTTCCATGGCAACTCATCTGTGATGCTGCCAACCTGGGCTCCCGCGCTTCCAGCCGGCCCTGCT  
 GGACCTGTCCACTGTGGAGGACCATAATGCCAGTACTTCAACTTCGTGGAGCTGCCCGTGCAGCCCTG  
 CGTTTCATGCCAAAGCCAGTGTTCTGTCCTGATGTAGCCCTCATCGCAACCGCTTCAACCCCGATAACC  
 TCATGCACGTCTTTCATGATGACCTGCTCCACTTTCTACACACTGAGGCAGTTCGCCGCTGGCCCA  
 AGAGGCCCGGCTCTTTTCATGGAGGGATGGGGTGGGGTGGCCACTTTGACCTCTATAAATCCTCAGC  
 CCCAAGCAGCCGCTTCTACGTGCACAGCTCAAGACACTGGGCCGACTGCTCTGCTTTCCATGCTTTCCG  
 TGGCCTGTCCAAGTTACACCTGGTACCAATACGGCTTTGTACAGCCCCAGGGCCCAAAAGCCAACAT  
 CCTGGTCTCTGGCAATGAGATCCGGCAGTTCACGCGCTTCATGACTGAAAGGCTGAACGTGAGCCACGCG  
 GGGGCGCCCTGGGGGAGGAATACATTCTGGTCTTCAGTCGCACCCAGAACAGACTCATCCTGAACGAGG  
 CAGAGCTGTTGCTGGAGCTGGCACAAGAGTTCAGATGAAGACGGTTACAGTGTCCCTGGAGGACCACAC  
 CTTTGTGATGTCGTGCGGCTGGTCAGCAATGCCTCCATGTTGGTCAGCATGCATGGGGCCAGCTGGTT  
 ACGGCCCTTCTCCTGCCCGGGGGCTACCGTGGTTGAACTCTTCCCTTACGCTGTCAATCCTGACCACT  
 ACACCCCTATAAGACGCTGGCCACACTGCCTGGCATGGACCTGCAGTATGTAGCCTGGGAAACATGAT  
 CCGGGAGAACACAGTCACACACCCTGAGCGACCGTGGGACCAAGGGGGCATCACCCACCTGGACCGGGCT  
 GAGCAGGCCCGTATCCTGCAGAGCCGAGAGGTCCCGCGCATCTCTGTTGCCGGAACCCAGAGTGGCTAT  
 TCCGAATCTACCAGGACACCAGGTTGGACATCCCATCCCTTATGCAATCCATTCCGCGTGTGGTGAAGGG  
 CCGGCCGGGGCCACGGAGGCAGAGGTGGGCAATCAGCCTGTACCCGGGCAAGGTGCGGGAGGCTCGATGT  
 CAGGCGTCAGTGCAGGTTGCCACCGAGGCCCGCTGTCTGTGCTGGCAGATCCCGTGGAACTCAAGT  
 ACCTGAAAGTGAAGGAGGTGAAATACGAGGTGTGGCTGCAGGAGCAAGGGGAGAACAGTATGTGCCTTA  
 CATGCTGACCCTGCAGAACCACACCTTACAGAGAACATCAAACCTTTTACCACCTACCTGGTGTGGGTC  
 CGCTGTATATTTAACAGGAGCCTCTGGGACCTTTGCAGATGTGCTGGTGTGCAGCAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001289559
- Insert Size:** 1743 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001289559.1](#), [NP\\_001276488.1](#)

**RefSeq Size:** 2426 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 215494

**UniProt ID:** [Q8BW41](#)

**Cytogenetics:** 9 F4

**Gene Summary:** O-linked mannose beta-1,4-N-acetylglucosaminyltransferase that transfers UDP-N-acetyl-D-glucosamine to the 4-position of the mannose to generate N-acetyl-D-glucosamine-beta-1,4-O-D-mannosylprotein (By similarity). Involved in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (PubMed:24256719).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.