

Product datasheet for **MC228363**

Pomgnt2 (NM_001289558) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomgnt2 (NM_001289558) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pomgnt2
Synonyms:	Ago61; C85492; Gtdc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228363 representing NM_001289558
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACCTCTCTGCCGTATTCAACGCCCTCTGGTATCAGTGCTGGCTGCGGTCCTGTGGAAGCATGTTCC
 GGTTGCGGGAGCATGCGGCCACGCTAGAGGAGGAGCTGGCCCTTGACAGCAGTCCCTGGATCCAGTCCCT
 AGGACTGAAGATCGACTACCCGAAGGCCCTGCAGATCCTCATGGAGGGCGGCACCCACATGGTGTGCACA
 GGCCGCACCCACACGACCCGCATCTGCCGCTTCAAGTGGCTCTGCTACTCCAATGAGGCCGAAGAATTCA
 TCTTTTTCCATGGCAACTCATCTGTGATGCTGCCAACCTGGGCTCCCGGCGCTTCCAGCCGGCCCTGCT
 GGACCTGTCCACTGTGGAGGACCATAATGCCAGTACTTCAACTTCGTGGAGCTGCCCGTGCAGCCCTG
 CGTTTCATGCCAAAGCCAGTGTTCTGTCCTGATGTAGCCCTCATCGCAACCGCTTCAACCCCGATAACC
 TCATGCACGTCTTTCATGATGACCTGCTCCACTTTCTACACACTGAGGCAGTCCCGGCGCTGGCCCA
 AGAGGCCCGGCTCTTTTCATGGAGGGATGGGGTGGGGTGGCCACTTTGACCTCTATAAATCCTCAGC
 CCCAAGCAGCCGCTTCTACGTGCACAGCTCAAGACACTGGGCCGACTGCTCTGCTTTTCCATGCTTTCCG
 TGGGCTGTCCAAGTTACACCTGGTACCAATACGGCTTTGTACAGCCCCAGGGCCCAAAAGCCAAACAT
 CCTGGTCTCTGGCAATGAGATCCGGCAGTTCACGCGCTTCATGACTGAAAGGCTGAACGTGAGCCACGCG
 GGGGCGCCCTGGGGGAGGAATACATTTCTGGTCTTCAGTCGCACCCAGAACAGACTCATCCTGAACGAGG
 CAGAGCTGTTGCTGGAGCTGGCACAAGAGTTCAGATGAAGACGGTTACAGTGTCCCTGGAGGACCACAC
 CTTTGTGATGTCGTGCGGCTGGTCAGCAATGCCTCCATGTTGGTCAGCATGCATGGGGCCAGCTGGTT
 ACGGCCCTTCTCCTGCCCGGGGGCTACCGTGGTTGAACTCTTCCCTTACGCTGTCAATCCTGACCACT
 ACACCCCTATAAGACGCTGGCCACACTGCCTGGCATGGACCTGCAGTATGTAGCCTGGCGAAACATGAT
 CCGGGAGAACACAGTCACACACCCTGAGCGACCGTGGGACCAAGGGGGCATCACCCACCTGGACCGGGCT
 GAGCAGGCCCGTATCCTGCAGAGCCGAGAGGTCCCGGCGCATCTCTGTTGCCGGAACCCAGAGTGGCTAT
 TCCGAATCTACCAGGACACCAGGTTGGACATCCCATCCCTATGCAATCCATTCCGCGTGTGGTGAAGGG
 CCGGCCGGGGCCACGGAGGCAGAGGTGGGCAATCAGCCTGTACCCGGGCAAGGTGCGGGAGGCTCGATGT
 CAGGCGTCAGTGCAGGTTGCCACCGAGGCCCGCTGTCTGTGCTGGCAGATCCCGTGGAACTCAAGT
 ACCTGAAAGTGAAGGAGGTGAAATACGAGGTGTGGCTGCAGGAGCAAGGGGAGAACAGTATGTGCCTTA
 CATGCTGACCCTGCAGAACACACCTTACAGAGAACATCAAACCTTTTACCACCTACCTGGTGTGGGTC
 CGCTGTATATTTAACAGGAGCCTCTGGGACCTTTTGCAGATGTGCTGGTGTGCAGCAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001289558
- 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_001289558.1](#), [NP_001276487.1](#)

RefSeq Size: 2526 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 (1) represents the longest transcript. Variants 1, 2, 3 and 4 encode the same protein. 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.