

## Product datasheet for **MC228544**

### **Pomgnt1 (NM\_001290658) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pomgnt1 (NM_001290658) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pomgnt1
Synonyms:	0610016I07Rik; 4930467B06Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228544 representing NM\_001290658  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGGGACCAAGGAAGTCAAGGACTCAAATGGGAAAATACAAGACCACGGGACAGGGGCTGTGCTTT  
 TCCTGCTGGTGACCGTCATTGTCAACATCAAGTTGATCCTGGACTCGGAGAGCAATCAGCGAGGCCAA  
 TGAAGACCCAGAACAGAGCAAGACTATGATGAGGCCCTAGGACGCTCGGAGTCCCTCGGCGCAGAGGC  
 AGCAGTCCCCGACGGGTCTGGATGTGGAAGTATACTCCAGTAGAAGCAAAGTGTATGTGGCTGTGGATG  
 GCACCACGGTGTCTGAGGATGAAGCCCGGAGCAGGGCCGAGGCATCCATGTCATAGTCTCAACCAGGC  
 CACGGGCCACGTGATGGCAAAGCGCGTGTGGACATACTCTCCTCATGAGGATGAGGCCATGGTGTCTG  
 TTCCTCAACATGGTGGCCCCGGCCGCTGTGATCTGCACGGTGAAGGATGAGGGTTCCTTCCACCTCA  
 AGGACACAGCAAAGGCTCTGCTGAGGAGCTGGGAAGTCAGGCAGGCCCTGCCCTGGCTGGAGGGACAC  
 CTGGGCCCTCGTGGGACAAAAGGAGTCTGTACTTGGCGAGAAACATTCTAAATCTCCTGCCCTCTCC  
 TCCTGGGGTGACCCAGTCTGTGAAGACAGATGTGCCACTGAGCTCAGCTGAAGAGGCTGAGTGTCACT  
 GGGCAGATACGGAGTTGAACCGCCGCGCAGGCGCTTCTGCAGCAAAGTGGAGGGCTACGGGAGCGTGTG  
 CAGCTGCAAGGACCCGACGCCTATTGAGTTCAGCCCTGACCCACTTCCAGACAATAAGGTCTCAATGTG  
 CCTGTGGCTGTCAATGCAGGGAACCGGCCAATTACCTGTACAGGATGCTGCGCTCTCTGCTCTCAGCCC  
 AAGGGGTATCTCCACAGATGATAACGGTCTTATTGATGGCTACTATGAGGAGCCAATGGATGTGGTGGC  
 GCTGTTTGGTCTGAGAGGCATCCAGCATACTCCTATCAGCATCAAGAACGCCCGTGTGCTCAGCACTAC  
 AAGGCCAGCCTCACTGCCACTTTCAACCTGTTCCGGAGGCCAAGTTGCTGTGGTCTGGAAGAGGACC  
 TGGACATTGCCGTGGATTTTTTTCAGTTTCTGAGCCAGTCCACTCCACTGCTGGAGAAGATGACAGCCT  
 GTACTGCATCTCTGCCTGGAATGACCAGGGGTATGAACACACAGCTGAGGATCCAGCACTACTGTACCCT  
 GTGGAGACCATGCCTGGGCTAGGATGGGTGCTCAGGAAATCTTTATAAAGGAGGAGCTTGAACCAAGT  
 GGCCACACAGAAAAGCTGTGGGATTGGGACATGTGGATGCGGATGCCGGAACAGCGCCGGGGCCGAGA  
 GTGTATCATCCCGGATGTTTCCCGATCCTACCCTTTGGCATCGTCGGCCTCAACATGAACGGCTACTTT  
 CATGAGGCCTACTTCAAGAAGCACAAGTTCACACAGTTCAGGTGTCCAGCTCAGGAATGTAGACAGTC  
 TGAAGAAAGAAGCTTATGAAGTGGAAATTCACAGACTGCTCAGTGAAGCCGAGGTTTTGGACCACAGCAA  
 GGACCCTTGTGAAGACTCTTCTGCCAGACACGGAGGGCCACACCTATGTGGCGTTTATCCGAATGGAG  
 ACAGATGATGACTTCGCCACCTGGACTCAGCTTCCCAAGTGCCTCCATATTTGGGACCTGGATGTTCTGTG  
 GCAACCACCGGGCCTGTGGAGATTATTTCCGGAAGAAGAACACTTTTTGGTGGTGGGGTCCCAGCCTC  
 CCCTTACTCAGTGAAGAAGCCACCATCAGTCACCCCTATTTTCTGGAGCCACCCCAAAGGAAGAGGA  
 GCCCAGGGGCTGCTGAACAAAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001290658

**Insert Size:** 1917 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.

<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>	<u>NM_001290658.1, NP_001277587.1</u>
<b>RefSeq Size:</b>	2650 bp
<b>RefSeq ORF:</b>	1917 bp
<b>Locus ID:</b>	68273
<b>UniProt ID:</b>	<u>Q91X88</u>
<b>Cytogenetics:</b>	4 D1
<b>Gene Summary:</b>	<p>Participates in O-mannosyl glycosylation by catalyzing the addition of N-acetylglucosamine to O-linked mannose on glycoproteins. Catalyzes the synthesis of the GlcNAc(beta1-2)Man(alpha1-)O-Ser/Thr moiety on alpha-dystroglycan and other O-mannosylated proteins, providing the necessary basis for the addition of further carbohydrate moieties. Is specific for alpha linked terminal mannose.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) contains an alternate 5' terminal exon and initiates translation at an alternate start codon, compared to variant 1. It encodes isoform 3, which has a shorter and distinct N-terminus, compared to isoform 1.</p>