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# Product datasheet for RN202765

## Pomgnt1 (NM_001007747) Rat Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Pomgnt1 (NM_001007747) Rat Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Pomgnt1 |
| **Synonyms:** | MGC94463 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |



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**Fully Sequenced ORF:**

>RN202765 representing NM_001007747
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGACTGGAAGCCTAGTCCCCTCATCAAGCCCTTTGGGGCTAGGAAGAAACGGAGCTGGTATCTTA
CCTGGAAGTATAAACTGACAAACCAGCGGGCCCTGCGAAGATTCTGTCAGACAGGAGCTGTGCTTTTCCT
GCTGGTGACTGTCATTGTGAACATCAAGTTGATCCTAGACACTCGGAGAGCCATCAGCGAGGCCAATGAA
GACCCTGAACCAGAGCAAGACTACGATGAGGCCCTAGGACGCTTAGAGTCCCCTCGGCACAGAGGCAGCA
GTCCCCGACGCGTGCTGGATGTGGAAGTATACTCCAGTAGAAGCAAAGTGTATGTGGCGGTAGATGGCAC
TACGGTGCTAGAGGATGAGGCCCGGGAGCAGGGCCGAGGCATCCATGTCATCGTCCTCAACCAGGCCACG
GGCCACGTGATGGCAAAGCGTGTGTTTGACACGTACTCTCCTCATGAGGATGAGGCCATGGTGCTATTCC
TCAACATGGTGGCGCCCGGCCGTGTACTGATCTGCACAGTTAAGGATGAGGGCTCCTTCCACCTCAAGGA
CACAGCAAAGGCTCTGCTGAGGAGCCTGGGAAGCCAGGCAGGCCCTGCCCTTGGCTGGAGGGACACCTGG
GCCTTCGTGGGACGAAAAGGAGGTCCTGTTCTTGGCGAGAAGCATTCTAAATCTCCTGCCCTCTCCTCCT
GGGGTGACCCAGTCCTGCTGAAGACAGATGTGCCACTCAGCTCAGCTGAAGAGGCTGAGTGTCACTGGGC
AGATACAGAGTTGAACCGCCGCCGCAGGCGCTTCTGCAGCAAAGTCGAGGGCTACGGGAGCGTGTGCAGC
TGCAAGGACCCAACACCTATTGAGTTCAGCCCTGACCCACTTCCAGACAATAAAGTCCTCAATGTGCCTG
TGGCTGTCATTGCAGGGAACCGGCCCAATTACCTGTACAGGATGCTGCGCTCTCTGCTGTCAGCCCAAGG
GGTATCTCCACAGATGATAACAGTCTTCATTGATGGCTACTATGAGGAGCCAATGGATGTGGTGGCACTG
TTTGGTCTGAGAGGCATCCAGCACACTCCCATCAGCATCAAGAACGCCCGTGTGTCTCAGCACTACAAGG
CCAGCCTCACTGCCACTTTCAACCTGTTTCCGGAGGCCAAGTTTGCTGTGGTTCTGGAAGAGGACCTGGA
CATCGCTGTGGACTTTTTCAGTTTCCTGAGCCAGTCCATCCACCTGCTGGAGGAAGATGACAGCCTGTAC
TGCATCTCTGCTTGGAATGACCAGGGGTATGAACACACAGCTGAGGATCCAGCACTACTGTACCGTGTGG
AGACCATGCCTGGGTTGGGATGGGTGCTCAGGAAATCTCTATACAAGGAGGAGCTTGAGCCCAAGTGGCC
CACACCAGAAAAGCTGTGGGACTGGGACATGTGGATGCGGATGCCGGAACAGCGCCGTGGCCGTGAGTGC
ATCATCCCGGATGTTTCCCGATCCTACCACTTTGGCATCGTGGGCCTCAACATGAATGGCTACTTTCATG
AGGCCTACTTCAAGAAGCACAAGTTCAACACAGTCCCAGGTGTCCAGCTCAGGAATGTAGACAGTCTGAA
GAAAGAAGCTTATGAAGTGGAAATTCACAGGCTGCTCAGTGAGGCCGAGGTTTTGGACCACAGCAAGGAC
CCTTGTGAAGACTCCTTCCTGCCAGACACAGAGGGCCATACCTATGTGGCATTTATCCGGATGGAGAAAG
ATGATGACTTCACCACCTGGACTCAGCTTGCCAAGTGCCTCCACATTTGGGATCTGGACGTTCGTGGCAA
CCACCGGGGCCTGTGGAGATTATTTCGGAAGAAGAACCACTTTTTGGTGGTGGGGGTCCCAGCCTCCCCT
TACTCAGTGAAGAAGCCACCCTCAGTCACCCCTATTTTCCTGGAGCCACCCCCAAAGGAAGAAGGAGCCC
CAGGGGCTGCTGAACAAACATGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM_001007747

**Insert Size:** 1983 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).

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001007747.1, NP_001007748.1 |
| **RefSeq Size:** | 2745 bp |
| **RefSeq ORF:** | 1983 bp |
| **Locus ID:** | 362567 |
| **UniProt ID:** | Q5XIN7 |
| **Cytogenetics:** | 5q35 |
| **Gene Summary:** | 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] |