

## Product datasheet for **RR202765**

### **Pomgnt1 (NM\_001007747) Rat Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>RR202765 representing NM\_001007747  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATGACTGGAAGCCTAGTCCCTCATCAAGCCCTTTGGGGCTAGGAAGAAACGGAGCTGGTATCTTA  
 CCTGGAAGTATAAACTGACAAACCAGCGGGCCCTGCGAAGATTCTGTCAGACAGGAGCTGTGCTTTTCCT  
 GCTGGTACTGTCATTGTGAACATCAAGTTGATCCTAGACACTCGGAGAGCCATCAGCGAGGCCAATGAA  
 GACCCTGAACCAGAGCAAGACTACGATGAGGCCCTAGGACGCTTAGAGTCCCCTCGGCACAGAGGCAGCA  
 GTCCCCGACGCGTGTGGATGTGGAAGTATACTCCAGTAGAAGCAAAGTGTATGTGGCGGTAGATGGCAC  
 TACGGTGTAGAGGATGAGGCCCGGGAGCAGGGCCGAGGCATCCATGTCATCGTCCTCAACCAGGCCACG  
 GGCCACGTGATGGCAAAGCGTGTGTTTGACACGTACTCTCCTCATGAGGATGAGGCCATGGTGTATTCC  
 TCAACATGGTGGCGCCCGCCGTGTACTGATCTGCACAGTTAAGGATGAGGGCTCCTTCCACCTCAAGGA  
 CACAGCAAAGGCTCTGCTGAGGAGCCTGGGAAGCCAGGCAGGCCCTGCCCTTGGCTGGAGGGACACCTGG  
 GCCTTCGTGGGACGAAAAGGAGGTCCTGTTCTTGGCGAGAAGCATTCTAAATCTCCTGCCCTCTCCTCCT  
 GGGGTGACCCAGTCTGTGAAGACAGATGTGCCACTCAGCTCAGCTGAAGAGGCTGAGTGTCACTGGGC  
 AGATACAGAGTTGAACCGCCGCGCAGGCGCTTCTGCAGCAAAGTCGAGGGCTACGGGAGCGTGTGCAGC  
 TGCAAGGACCCAAACCTATTGAGTTACGCCCTGACCCACTTCCAGACAATAAAGTCTCAATGTGCCTG  
 TGGCTGTCAATTCAGGGAACCGGCCAATTACCTGTACAGGATGCTGCGCTCTCTGCTGTAGCCCAAGG  
 GGTATCTCCACAGATGATAACAGTCTTCATTGATGGCTACTATGAGGAGCCAATGGATGTGGTGGCACTG  
 TTTGGTCTGAGAGGCATCCAGCACACTCCATCAGCATCAAGAACGCCCGTGTGTCTCAGCACTACAAGG  
 CCAGCCTCACTGCCACTTCAACCTGTTCCGGAGGCCAAGTTTGTGTGTTCTGGAAGAGGACCTGGA  
 CATCGCTGTGGACTTTTTCAAGTTTCTGAGCCAGTCCATCCACCTGCTGGAGGAAGATGACAGCCTGTAC  
 TGCATCTCTGCTTGAATGACCAGGGGTATGAACACACAGCTGAGGATCCAGCACTACTGTACCGTGTGG  
 AGACCATGCCTGGGTTGGGATGGGTGCTCAGGAAATCTCTATACAAGGAGGAGCTTGAGCCCAAGTGGCC  
 CACACCAGAAAAGCTGTGGGACTGGGACATGTGGATGCGGATGCCGGAACAGCGCCGTGGCCGTGAGTGC  
 ATCATCCCGGATGTTCCCGATCCTACCACTTTGGCATCGTGGCCCTCAACATGAATGGTACTTTCATG  
 AGGCCTACTTCAAGAAGCACAAAGTTCAACACAGTCCCAGGTGTCCAGCTCAGGAATGTAGACAGTCTGAA  
 GAAAGAAGCTTATGAAGTGAAATTCACAGGCTGCTCAGTGAAGCCGAGGTTTTGGACCACAGCAAGGAC  
 CCTTGTGAAGACTCCTTCTGCCAGACACAGAGGCCATACCTATGTGGCATTATCCGGATGGAGAAAAG  
 ATGATGACTTACCACCTGGACTCAGCTTGCCAAGTGCCTCCACATTTGGGATCTGGACGTTTCGTGGCAA  
 CCACCGGGCCTGTGGAGATTATTCGGAAGAAGAACCCTTTTTGGTGGTGGGGTCCCAGCCTCCCCT  
 TACTCAGTGAAGAAGCCACCCTCAGTACCCCTATTTTCTGGAGCCACCCCAAGGAAGAAGGAGCCC  
 CAGGGGCTGCTGAACAAACA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR202765 representing NM\_001007747  
 Red=Cloning site Green=Tags(s)

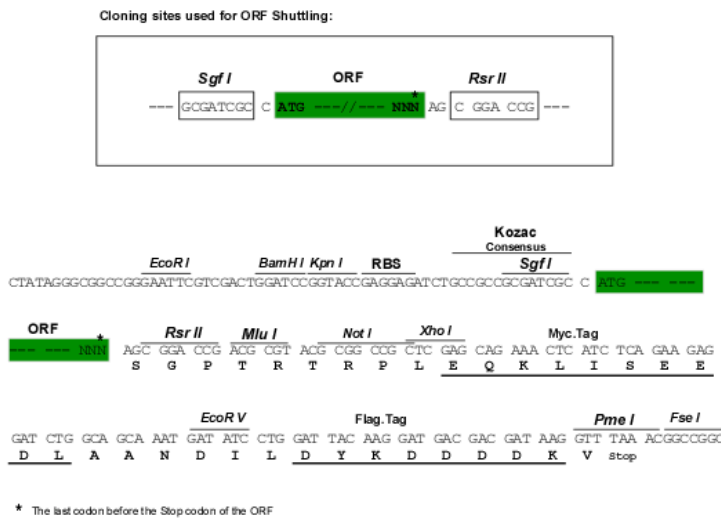
MDDWKPSLIKPFGARKKRSWYLTWKYKLTNQRALRRFCQTGAVLFLLVTIVNIKILIDTRRAISEANE  
 DPEPEQDYDEALGRLESPRHRGSSPRRVL DVEVYSSRSKVYVAVDGTTVLEDEAREQGRGIHVIVLNQAT  
 GHVMAKRVFDTYSPHEDEAMVLF LNMVAPGRVLI CTVKDEGSFHLKDTAKALLRSLGSQAGPALGWRDWT  
 AFVGRKGGPVLGEKHSKSPALSSWGDVPL LKTDVPLSSAEEAECHWADTELNRRRRRFFCSKVEGYGVSVC  
 CKDPTPIEFSPDPLPDNKVLNVPVAVIAGNRPNYLYRMLRSLLSAQGVSPQMITVFIDGYEEMPMDVVAL  
 FGLRGIQHTPISIKNARVSQHYKASLTATFNLFPEAKFAVVLEEDLDIAVDFFSFLSQSIHLLEEDDSLY  
 CISAWNDQGYEHTAEDPALLYRVETMPGLGWVLRKSLYKEELEPKWPTPEKLWDWDMWMRMPEQRRGREG  
 IIPDVSRSYHFGIVGLNMNGYFHEAYFKKHKFNTVPGVQLRNVDSLKKEAYEVEIHRLLSEAEVLDHSDK  
 PCEDSFLPDTEGHTYVAFIRMEKDDFTTWTQLAKCLHIWDL DVRGNHRGLWRLFRKKNHFLVVGVPASP  
 YSVKKPPSVTPIFLEPPPKEEGAPGAAEQT

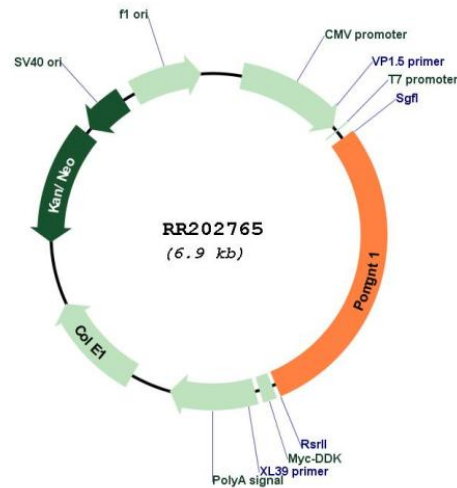
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001007747

**ORF Size:** 1980 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\\_001007747.1](#), [NP\\_001007748.1](#)

RefSeq Size: 2745 bp

RefSeq ORF: 1983 bp

Locus ID: 362567

UniProt ID: [Q5XIN7](#)

Cytogenetics: 5q35

MW: 75.1 kDa

**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]