

Product datasheet for **MR209842**

Pomgnt1 (NM_026651) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomgnt1 (NM_026651) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pomgnt1
Synonyms:	0610016I07Rik; 4930467B06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209842 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGACTGGAAGCCAGTCCCCTCATCAAGCCCTTTGGGGCTAGGAAGAAACGGAGCTGGTACCTTA
CCTGGAAGTATAAACTGACAAACCAGCGGCCCTGAGGAGATTCTGTGACACAGGGGCTGTGCTTTTCCT
GCTGGTGACCGTCATTGTCAACATCAAGTTGATCCTGGACACTCGGAGAGCAATCAGCGAGGCCAATGAA
GACCCAGAACCAGAGCAAGACTATGATGAGGCCCTAGGACGTCTGGAGTCCCCTCGGCGCAGAGGCAGCA
GTCCCCGACGGGTGCTGGATGTGGAAGTAACTCCAGTAGAAGCAAAGTGTATGTGGCTGTGGATGGCAC
CACGGTGTCTGAGGATGAAGCCCGGAGCAGGGCCGAGGCATCCATGTCATAGTCTCAACCAGGCCACG
GGCCACGTGATGGCAAAGCGCGTGTGGACACATACTCTCCTCATGAGGATGAGGCCATGGTGTCTTCC
TCAACATGGTGGCCCCCGCCGCTGTGATCTGCACGGTGAAGGATGAGGGTTCCTTCCACCTCAAGGA
CACAGCAAAGGCTCTGCTGAGGAGCCTGGGAAGTCAGGCAGGCCCTGCCCTTGGCTGGAGGGACACCTGG
GCCTTCGTGGGACGAAAAGGAGGTCTGTACTTGGCGAGAAACATTCTAAATCTCCTGCCCTCTCCTCCT
GGGGTGACCCAGTCTGTGAAGACAGATGTGCCACTGAGCTCAGCTGAAGAGGCTGAGTGTCACTGGGC
AGATACGGAGTTGAACCGCCGCCGACGGCGCTTCTGCAGCAAAGTGGAGGGCTACGGGAGCGTGTGCAGC
TGCAAGGACCCGACGCCTATTGAGTTACGCCCTGACCCACTTCCAGACAAATAAGGTCCTCAATGTGCCTG
TGGCTGTCAATGCAGGGAACCGGCCAATTACCTGTACAGGATGCTGCGCTCTCTGCTCTCAGCCCAAGG
GGTATCTCCACAGATGATAACGGTCTTCATTGATGGCTACTATGAGGAGCCAATGGATGTGGTGGCGCTG
TTTGGTCTGAGAGGCATCCAGCATACTCCTATCAGCATCAAGAACGCCGTGTGTCTCAGCACTACAAGG
CCAGCCTCACTGCCACTTCAACCTGTTCCGGAGGCCAAGTTTGTCTGTGGTTCTGGAAGAGGACCTGGA
CATTGCCGTGGATTTTTTCAGTTTCTGAGCCAGTCCATCCACCTGCTGGAGGAAGATGACAGCCTGTAC
TGCATCTCTGCCTGGAATGACCAGGGTATGAACACACAGCTGAGGATCCAGCACTACTGTACCGTGTGG
AGACCATGCCTGGGCTAGGATGGGTGCTCAGGAAATCTTTATACAAGGAGGAGCTTGAAGCCCAAGTGGCC
CACACCAGAAAAGCTGTGGGATTGGGACATGTGGATGCGGATGCCGGAACAGCGCCGGGGCCGAGAGTGT
ATCATCCCGGATGTTCCCGATCCTACCCTTTGGCATCGTCGGCCTCAACATGAACGGCTACTTTCATG
AGGCTACTTCAAGAAGCACAAGTTCAACACAGTTCAGGTGTCCAGCTCAGGAATGTAGACAGTCTGAA
GAAAGAAGCTTATGAAGTGGAAATTCACAGACTGCTCAGTGAAGCCGAGGTTTTGGACCACAGCAAGGAC
CCTTGTGAAGACTCCTTCTGCCAGACACGGAGGCCACACCTATGTGGCGTTTATCCGAATGGAGACAG
ATGATGACTTCGCCACCTGGACTCAGCTTGCCAAGTGCCTCCATATTTGGGACCTGGATGTCGTGGCAA
CCACCGGGGCTGTGGAGATTATTCGGAAGAAGAACCCTTTTTGGTGGTGGGGTCCCAGCCTCCCCT
TACTCAGTGAAGAAGCCACCATCAGTACCCCTATTTTCTGGAGCCACCCCAAAGGAAGAAGGAGCCC
CAGGGGCTGTGAACAAACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209842 protein sequence
Red=Cloning site Green=Tags(s)

MDDWKPSPLIKPFGARKKRSWYLTWKYKLTNQALRRFCQTGAVLFLLVTVIVNIKLILDTRRAISEANE
DPEPEQDYDEALGRLESPRRRGSSPRRVLDEVEYSSRSKVVYVAVDGTTVLEDEAREQGRGIHVIVLNQAT
GHVMAKRVFDTYSPHEDEAMVLFNMVAPGRVLICTVKDEGSFHLKDTAKALLRSLGSQAGPALGWRDWT
AFVGRKGGPVLGEKHSKSPALSSWGDVLLKTDVPLSSAEEAECHWADTELNRNRRRRCCKVEGYGSVCS
CKDPTPIEFSPDPLPDNKVLNVPVAVIAGNRPNYLRLRSLLSAQGVSPQMITVFDGYEPEMDVVAL
FGLRGIQHTPISIKNARVSQHYKASLTATFNLFPEAKFAVLEEDLDIAVDFFSFLSQSIHLLLEEDDSLY
CISAWNDQGYEHTAEDPALLYRVETMPGLGWVLRKSLYKEELEPKWPTPEKLWDWDMWRRMPEQRRGREG
IIPDVSRSYHFGIVGLNMNGYFHEAYFKKHKFNTVPGVQLRNVDSLKKEAYEVEIHRLLSEAEVLDHSDK
PCEDSFLPDTEGHTYVAFIRMETDDDFATWTQLAKCLHIWDLDVRGNHRGLWRLFRKKNHFLVVGVPASP
YSVKKPPSVTPIFLEPPPKEEGAPGAAEQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_026651

ORF Size: 1983 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_026651.2](#)

RefSeq Size: 2736 bp

RefSeq ORF: 1983 bp

Locus ID: 68273

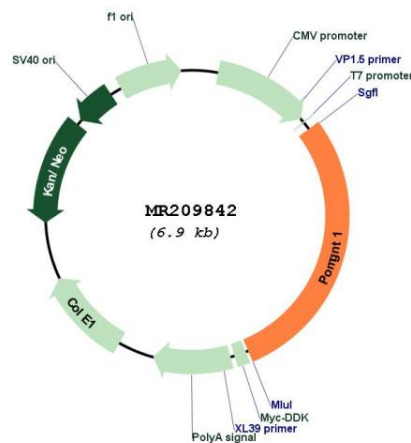
UniProt ID: [Q91X88](#)

Cytogenetics: 4 D1

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(alpha1-3)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]

Product images:



Circular map for MR209842