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Product datasheet for MC219338

Pomgnt2 (NM_153540) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomgnt2 (NM_153540) 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:

>MC219338 representing NM_153540
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCTCTCTGCCGTATTCAACGCCCTCCTGGTATCAGTGCTGGCTGCGGTCCTGTGGAAGCATGTTC
GGTTGCGGGAGCATGCGGCCACGCTAGAGGAGGAGCTGGCCCTTGGACAGCAGTCCCTGGATCCAGTCCT
AGGACTGAAGATCGACTACCCGAAGGCCCTGCAGATCCTCATGGAGGGCGGCACCCACATGGTGTGCACA
GGCCGCACCCACACGGACCGCATCTGCCGCTTCAAGTGGCTCTGCTACTCCAATGAGGCCGAAGAATTCA
TCTTTTTCCATGGCAACTCATCTGTGATGCTGCCCAACCTGGGCTCCCGGCGCTTCCAGCCGGCCCTGCT
GGACCTGTCCACTGTGGAGGACCATAATGCCCAGTACTTCAACTTCGTGGAGCTGCCCGCTGCAGCCCTG
CGCTTCATGCCAAAGCCAGTGTTCGTGCCTGATGTAGCCCTCATCGCCAACCGCTTCAACCCCGATAACC
TCATGCACGTCTTTCATGATGACCTGCTCCCACTCTTCTACACACTGAGGCAGTTCCCCGGCCTGGCCCA
AGAGGCCCGGCTCTTTTTCATGGAGGGATGGGGTGAGGGTGCCCACTTTGACCTCTATAAACTCCTCAGC
CCCAAGCAGCCGCTTCTACGTGCACAGCTCAAGACACTGGGCCGACTGCTCTGCTTTTCCCATGCTTTCG
TGGGCCTGTCCAAGGTTACCACCTGGTACCAATACGGCTTTGTACAGCCCCAGGGCCCAAAAGCCAACAT
CCTGGTCTCTGGCAATGAGATCCGGCAGTTCACGCGCTTCATGACTGAAAGGCTGAACGTGAGCCACGCG
GGGGCGCCCCTGGGGGAGGAATACATTCTGGTCTTCAGTCGCACCCAGAACAGACTCATCCTGAACGAGG
CAGAGCTGTTGCTGGAGCTGGCACAAGAGTTCCAGATGAAGACGGTTACAGTGTCCCTGGAGGACCACAC
CTTTGCTGATGTCGTGCGGCTGGTCAGCAATGCCTCCATGTTGGTCAGCATGCATGGGGCCCAGCTGGTT
ACGGCCCTCTTCCTGCCCCGCGGGGCTACCGTGGTTGAACTCTTCCCTTACGCTGTCAATCCTGACCACT
ACACCCCCTATAAGACGCTGGCCACACTGCCTGGCATGGACCTGCAGTATGTAGCCTGGCGAAACATGAT
CCGGGAGAACACAGTCACACACCCTGAGCGACCGTGGGACCAAGGGGGCATCACCCACCTGGACCGGGCT
GAGCAGGCCCGTATCCTGCAGAGCCGAGAGGTCCCCCGGCATCTCTGTTGCCGGAACCCAGAGTGGCTAT
TCCGAATCTACCAGGACACCAGGGTGGACATCCCATCCCTTATGCAATCCATTCGGCGTGTGGTGAAGGG
CCGGCCGGGGCCACGGAGGCAGAGGTGGGCAATCAGCCTGTACCCGGGCAAGGTGCGGGAGGCTCGATGT
CAGGCGTCAGTGCAGGGTGCCACCGAGGCCCGCCTGTCTGTGTCCTGGCAGATCCCGTGGAACCTCAAGT
ACCTGAAAGTGAGGGAGGTGAAATACGAGGTGTGGCTGCAGGAGCAAGGGGAGAACACGTATGTGCCTTA
CATGCTGACCCTGCAGAACCACACCTTCACAGAGAACATCAAACCTTTTACCACCTACCTGGTGTGGGTC
CGCTGTATATTTAACAGGAGCCTCCTGGGACCTTTTGCAGATGTGCTGGTGTGCAGCACGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_153540

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).

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_153540.4, NP_705768.4
RefSeq Size:	2369 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 (4) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same isoform.