OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RN208285

Pomgnt2 (NM_001009437) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomgnt2 (NM_001009437) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pomgnt2
Synonyms:	Ago61; Gtdc2; RGD1304827
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>RN208285 representing NM_001009437
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCTCTCTGCAGTATTCAACGCCCTCCTGGTATCAGTGCTGGCTGCGGTCCTGTGGAAGCACGTGC
GGTTGCGGGAGCATGCGGCCACGCTAGAGGAGGAGCTGGCCCTTGGACAGCAGTCCCTGGATCCAGTCCC
AGGGCTGAGGATCGACTACCCGAAGGCCCTGCAGATCCTCATGGAGGGTGGCACCCACATGGTGTGCACG
GGCCGCACCCACACGGACCGCATCTGCCGCTTCAAGTGGCTCTGCTACTCCAATGAGGCCGAAGAATTCA
TCTTTTTCCACGGCAACTCGTCTGTGATGCTGCCCAACCTGGGCTCCCGGCGCTTCCAGCCGGCCCTGCT
GGACCTGTCCACTGTGGAGGACCATAATGCCCAGTACTTCAACTTCGTGGAGCTGCCTGCCGCAGCCCTG
CGCTTCATGCCAAAGCCAGTGTTCGTGCCTGATGTGGCCCTCATCGCCAACCGCTTCAACCCCGATAACC
TCATGCACGTCTTCCATGATGACCTGCTCCCCCTCTTCTACACACTGAGGCAGTTCCCCGGCCTGGCCCA
AGAGGCCCGGCTCTTCTTTATGGAGGGGTGGGGCGAGGGCGCCCACTTTGACCTCTATAAACTCCTCAGC
CCCAAGCAGCCGCTGCTCCGTTCGCAGCTCAAGACCCTGGGCCGGCTGCTCTGCTTTTCCCATGCTTTCG
TGGGCCTGTCCAAGGTCACCACCTGGTACCAGTACGGCTTTGTCCAGCCCCAGGGCCCAAAGGCCAACAT
CCTGGTCTCTGGCAATGAGATCCGGCAGTTCACCCGCTTCATGACTGAAAGGCTGAACGTGAGCCACGCG
GGGGCGCCCCTCGGGGAGGAATACATTCTGGTCTTCAGCCGCACCCAGAATAGACTCATCCTGAATGAGG
CAGAGCTGTTGCTGGAGCTAGCACAAGAGTTCCAGATGAAGACCGTGACAGTGTCCCTGGAGGACCACAC
CTTTGCCGATGTCGTGCGGCTGGTCAGCAACGCCTCCATGTTAGTCAGCATGCATGGGGCCCAGCTGGTG
ACAGCCCTCTTCCTGCCCCGTGGGGCTACTGTGGTTGAACTCTTCCCGTACGCTGTCAATCCTGACCACT
ACACCCCCTATAAGACGCTGGCCACACTGCCTGGCATGGACCTGCAGTATGTAGCCTGGAGAAACATGAT
CCGGGAGAACACAGTCACGCACCCCGAGCGACCCTGGGACCAAGGGGGAATCACCCACTTGGACCGGGCT
GAGCAGGCCCGCATCCTACAGAGCCGAGAGGTTCCCCGGCATCTGTGTTGCCGGAACCCAGAGTGGCTAT
TCCGAATCTACCAGGACACCAGGGTGGACATCCCATCCCTCATGCAATCCATTCGGCGTGTGGTGAAGGG
CCGGCCGGGGCCACGGAGGCAGAGGTGGGCAATCAGCCTGTACCCTGGTAAGGTACGGGAGGCTCGATGT
CAGGCGTCGGTGCAGGGCGCCACGGAGGCCCGCCTGTCTGTGTCCTGGCAGATCCCGTGGAACCTCAAGT
ACCTGAAAGTGAGGGAGGTGAGGTACGAGGTGTGGCTGCAGGAGCAAGGGGAGAACACGTATGTGCCTTA
CATGCTGACGCTGCAGAACCATACCTTCACGGAGAACATCAAACCTTTTACCACCTACCTGGTGTGGGTC
CGCTGCATCTTCAACAGGAGCCTCCTGGGACCTTTTGCAGATGTGCTGGTGTGCAGCACGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001009437

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_001009437.1, NP_001009437.1
RefSeq Size:	1743 bp
RefSeq ORF:	1743 bp
Locus ID:	316091
UniProt ID:	Q5NDF0
Cytogenetics:	8q32
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. 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 (By similarity).[UniProtKB/Swiss-Prot Function]