

Product datasheet for SC119957

PMM2 (NM_000303) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMM2 (NM_000303) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMM2
Synonyms:	CDG1; CDG1a; CDGS; PMI; PMI1; PMM 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119957 sequence for NM_000303 edited (data generated by NextGen Sequencing)

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ATGGCAGCGCCTGGCCCAGCGCTCTGCCTCTTCGACGTGGATGGGACCCCTCACCGCCCCG
CGGCAGAAAATTACCAAAGAAATGGATGACTTCTTACAAAAATTGAGGCAGAAGATCAAAA
ATCGGAGTGGTAGCGGATCGGACTTTGAGAAAGTGCAGGAGCAACTGGGAAATGATGTG
GTTGAAAAATACGATTATGTGTTTCCAGAAAATGGCTTGGTAGCATACAAAGATGGGAAA
CTCTTGTTGACAGAGAATATTCAAAGTCATCTGGGTGAGGCCCTAATCCAAGATTTAATC
AACTACTGTCTGAGCTACATTGCGAAAATTAAGTCCCGAAGAAGAGGGGTAATTTTATT
GAATTCGAAAATGGGATGTTAAACGTGTCCCCTATTGGAAGAAGCTGCAGCCAAGAAGAA
CGCATTGAGTTCTACGAACGATAAAAAAGAAAATATAAGACAAAAGTTTGTAGCAGAT
CTACGGAAAGAGTTTGTGGAAAAGGCCTCACGTTTTCCATAGGAGGCCAGATCAGCTTT
GATGTCTTTCTGATGGATGGGACAAGAGATACTGTCTGCGACATGTGGAAAATGACGGT
TATAAGACCATTTATTTCTTTGGAGACAAAATATGCCAGGTGGCAATGACCATGAGATC
TTCACAGACCCCAGAACCATGGGCTACTCCGTGACAGCGCCTGAGGACACGCGCAGGATC
TGTGAAGTGTGTTCTCCTAA

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Clone variation with respect to NM_000303.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000303 unedited</p> <pre> NGTTCAAATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGAGAACTGGG GACATGGCAGCGCCTGGCCCAGCGCTCTGCCTCTTCGACGTGGATGGGACCCTCACCGCC CCGCGGCAGAAAATTACCAAAGAAATGGATGACTTCTACAAAAATTGAGGCAGAAGATC AAAATCGGAGTGGTAGGCGGATCGGACTTTGAGAAAAGTGCAGGAGCAACTGGGAAATGAT GTGGTTGAAAAATACGATTATGTGTTCCAGAAAATGGCTTGGTAGCATACAAAGATGGG AAACTCTTGTGTAGACAGAATATTCAAAGTCATCTGGGTGAGGCCCTAATCCAAGATTTA ATCAACTACTGTCTGAGCTACATTGCGAAAATTAACCTCCGAAGAAGAGGGGTACTTTC ATTGAATTCGAAATGGGATGTTAAACGTGTCCCCTATTGGAAGAAGCTGCAGCCAAAGAA GAACGCATTGAGTTCTACGAACTCGATAAAAAAGAAAATATAAGACAAAAGTTTGTAGCA GATCTACGGAAAGAGTTTGTGGAAAAGGCCTCACGTTTTCCATAGGAGGCCAGATCAGC TTTGATGTCTTTCCTGATGGATGGGACAAGAGATACTGTCTGCGACATGTGAAAATGAC GGTTATAAGACATTTATTTCTTGGAGACAAAATATGCCAGGTGGCAATGAACCATGA GATCTTACAGACCCAGAACCATGGGCTACTCCGTGACAGCGCCTNGAGACACGCGCAG NATCTGTGAAGTCTGTCTCCTACGTGNGAACGNAGGGGCNNGGGTCCCCGCTGACAG CCAGCATAGGGCATTCTGGCCAGAGCCGAGGGTNTCCACACGTGCTACCCACCGCA GCCTAGCAGCTCTGATGCTATGCAGCATGTGCAGTCTGGACTCN </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000303 unedited</p> <pre> GCCGCAATCTAGAGTCGAGTTT TTTAAACAAAAAATCACTTTAAGGGCTCCTTT TCACTTTGGAAGGCTTTACCGTTTTTTTCCACAAGGAAAAATCCCCCTGGATGGCTGGG CCCTGGGAATCACTGGGAAAACTGGCTGTTTTCCCCCCCCGGATCCGGGGCTTAAACA GTTACAACCCCAAGTGGCTGGGAGGTTTGGAGGAACCAAGTTTACCTGGGATAAAACCC CCTGGCTTGGGGCTGGGAGGCAAGAATGCAGGGCACCCCTGGGCTCCCCTGGCCCCAAACT TAGGGCGGCAAGGGCCCAGGGGGGGCCCCCAACCCACCCCAACAAGGGGGGGGGTA TGGCTCAATGTTTCCCCCTCCTGAAAAGGGACCCATGAACCCTTTCTAAGAAAGTTCTT TTCCACCGGGTTTTAACTGAAACCCGGGATCCTTCCATTTTCAAAAAACGTGCAAAAA ATGAAAAAAGGGGGGACCCGGCCCTAGCTGTAGCTGCCCTCACCCCTCCGGGGTAAA ATCTGGGTAAAGCCTGGGTGAATGCAAAATAGGAAAACAACCTCCTTACTGGTCTCTGG CTGGGCTCTCGCTCCATCCCTGAAAAACAAGGCGACCGCCTCCAAGAACCAGCCCGGG CCACAAAAGTCTTTTTGGAGAACTGACATTCCCTTTTGTCTTCTGAACTGGGAAAAA CCGGCCCAGGGAAGGATGTTTTGCCACCCACCTCTCACACACTTGTGGTTTCACTACCT CCGCTCGGAACACAAAAACCCGCTTTTTTATGTGAGAAACCAACGTCCAAACCGCCA CCGAGGGAACCTAGGTTGTCCCTTGGCCCTTGCCAAAGCCTACCCAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000303
Insert Size:	2640 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:	<ol style="list-style-type: none">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_000303.1 , NP_000294.1
RefSeq Size:	2302 bp
RefSeq ORF:	741 bp
Locus ID:	5373
UniProt ID:	O15305
Cytogenetics:	16p13.2
Domains:	PMM
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways
Gene Summary:	The protein encoded by this gene catalyzes the isomerization of mannose 6-phosphate to mannose 1-phosphate, which is a precursor to GDP-mannose necessary for the synthesis of dolichol-P-oligosaccharides. Mutations in this gene have been shown to cause defects in glycoprotein biosynthesis, which manifests as carbohydrate-deficient glycoprotein syndrome type I. [provided by RefSeq, Jul 2008]