

## Product datasheet for SC118505

### PMM1 (NM\_002676) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PMM1 (NM_002676) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMM1
Synonyms:	PMM 1; PMMH-22; Sec53
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118505 sequence for NM_002676 edited (data generated by NextGen Sequencing)

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ATGGCAGTCACCGCCAGGCAGCCCGCAGGAAGGAGCGCTCCTGCCTGTTTGACGTG
GACGGGACCCCTACGCCGCTCGCCAGAAAATTGACCCTGAGGTGGCCGCTTCCCTGCAG
AAGCTACGAAGTAGAGTGCAGATCGGTGTGGTGGCGGCTCTGACTACTGTAAGATCGCT
GAGCAGCTGGGTGACGGGATGAAGTCATTGAGAAGTTTGATTATGTGTTTGCCGAGAAC
GGGACGGTGCAGTATAAGCACGGACGACTGCTCTCCAAGCAGACCATCCAGAACCACCTG
GGGGAGGAGCTGCTGCAGGACTTGATCAACTTCTGCCTCAGCTACATGGCCCTGCTCAGG
CTGCCAAGAAGCGTGGAACCTTCATCGAGTTCGGGAATGGCATGCTGAACATCTCGCCC
ATCGCCCGGAGCTGCACCCTGGAGGAGAGGATCGAGTTCTCCGAAGTGGACAAGAAAGAG
AAGATCCGGGAGAAGTTCGTGGAAGCCCTGAAAACAGAGTTTGCTGGCAAAGGGCTGAGG
TTCTCTCGAGGAGGCATGATCAGCTTTGACGTCTTCCCGAGGGCTGGGACAAGCGCTAC
TGCTTGGATAGCCTGGACCAGGACAGCTTCGACACCATCCAATCTTTGGGAACGAGACT
AGCCCTGGTGGGAACGACTTTGAGATCTTTGCCGACCCCGGACTGTTGGCCACAGCGTG
GTGTCTCTCAGGACACGGTGCAGCGATGCCGGGAGATTTTCTCCAGAGACAGCTCAT
GAGGCGTGA

```

Clone variation with respect to NM\_002676.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002676 unedited  
 CTCTGCATATTTGTCAATACGTACTCCACTATCAGGGGCGCGCCCGCAATTCGGCACG  
 AGGGCGGTACCTGCAGCCATGGTAGTCACCGCCAGGCAGCCCGAGGAAGGAGCGCGTC  
 CTCTGCCTGTTTGACGTGGACGGGACCCCTACGCCGGCTCGCCAGAAAATTGACCCTGAG  
 GTGGCCGCTTCTCTGCAGAAGCTACGAAGTAGAGTGCAGATCGGTGTGGTGGGCGGCTCT  
 GACTACTGTAAGATCGCTGAGCAGCTGGGTGACGGGGATGAAGTCATTGAGAAGTTTGAT  
 TATGTGTTTGCCGAGAACGGGACGGTGCAGTATAAGCACGGACGACTGCTCTCAAGCAG  
 ACCATCCAGAACCACCTGGGGGACGAGCTGCTGCAGGACTTGATCAACTCCTGCCTCAAT  
 TACATGGCCCTGTTAAGGCTGCCAAAAACGCGAACCTTCATCGAGTCCCGAAAGGCTG  
 GCTTAAAAATTTCCCTACGGGCGGGTTGCCCTGGGGGAAAAGGATCAAGTTTTTCAAC  
 CGGCCAAAAAACCAGCCGCAAAAATCGGGAAACCTAAAAAATTTTCGCGAA  
 AGGGCGGGGCTTTTCCCGGGGGCATAAACCCCTTCTACCCCCCGGGAGGGCGAAAA  
 CCCTCTTTTGTGTAATATGCCAACAAAAAATCTCCACCCCTCCCTCTTTGTGAAAAA  
 ACACCCCTGGGAGACAACTTAATATTTTCCCCCCCCGCGTGTGGACACCGGGGGT  
 TTTTCTCTCCAATGCCCCCCCGGAACTCTTCCCTAAAACCACCCAGGAGGGGGCG  
 CCCCCCGTGGCCGCCCTTTCAAAAACCTCCCCCAAAACCGGGGGTGCGCAACCGG  
 CCCCCCTCTCCGTGACGTCCCCCACCCAGCGAGCGGGGCCCGCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002676 unedited  
 CTCTCTTTTTTCTTTTTCTTTTCTTTTCTTTGTTTCTGGGAACTTTAATACTGTGACAAAAGT  
 TCTCTAAAATAGGCACCTTCCCCACCGTACCTCATCGCCAGGGCAGGCAGGCAGGGCAG  
 GCTAAATCTCGTACCGATACTTGAGCACGCCTCCTCCTGGTGAAAAAGAAACCTTCTCT  
 GTACCGAAATACAAGCAGCAGCTGTGGCCTGGGCCACCAGGTGGAGCATGGGGAACACTC  
 TGGGCCCTGGGAGGACGAAGCCAGTGCCACTAGGAGCAGACTGGCTGGGACGGTTGTCC  
 ACACAGACTCTGGCCCCATCTGGGTGGGCTTGACAGCGCTCCTGGGCCAGAGGAGGGG  
 CCCTGGCATCTATCCAACACCAGGACCTCTTTAGGCCTAGGCCAAACTCTTCAGAAGT  
 CACGACACACAGATGTGGGCCCGGTCACGCCTCATGAGCTGTCTCTGGGAAGAAAATCT  
 CCCGGCATCGCTGCACCGTGTCTGAGGAGACACCACGCTGTGGCCAACAGTCCGGGGGT  
 CGGCAAAGATCTCAAAGTCGTTCCACCAGGGCTAGTCTCGTTCCCAAAGAAGTGGATGG  
 TGTCGAAGCTGTCTGGTCCAGGCTATCCAGGCAGTAGCGCTTGTCCAGCCCTCGGGGA  
 AGACGTCAAAGCTGATCATGCCTCCTCGAGAAACCTCAGCCCTTTGCCAGCAAACCTCTGT  
 TTTCAAGGCTTCCACGAACCTTCCCGGATCTTCTTTTCTTGTCCAGTTCGGAGAACTC  
 GATCCTCTCTCCAGGTGCANCTCCGGCCGATGGNCGAGATGTTANCATGCCCTTCCCG  
 GACTCGATGAAAGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002676

**Insert Size:**

1350 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\\_002676.1](#), [NP\\_002667.1](#)

**RefSeq Size:** 1210 bp

**RefSeq ORF:** 789 bp

**Locus ID:** 5372

**UniProt ID:** [Q92871](#)

**Cytogenetics:** 22q13.2

**Domains:** PMM

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

**Gene Summary:** Phosphomannomutase catalyzes the conversion between D-mannose 6-phosphate and D-mannose 1-phosphate which is a substrate for GDP-mannose synthesis. GDP-mannose is used for synthesis of dolichol-phosphate-mannose, which is essential for N-linked glycosylation and thus the secretion of several glycoproteins as well as for the synthesis of glycosyl-phosphatidyl-inositol (GPI) anchored proteins. [provided by RefSeq, Jul 2008]