

## **Product datasheet for RC202004**

## PMM1 (NM\_002676) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** PMM1 (NM\_002676) Human Tagged ORF Clone

Tag: Myc-DDK

Synonyms: PMM 1; PMMH-22; Sec53

PMM1

Mammalian Cell Neomycin

Selection:

Symbol:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC202004 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202004 protein sequence

Red=Cloning site Green=Tags(s)

MAVTAQAARRKERVLCLFDVDGTLTPARQKIDPEVAAFLQKLRSRVQIGVVGGSDYCKIAEQLGDGDEVI EKFDYVFAENGTVQYKHGRLLSKQTIQNHLGEELLQDLINFCLSYMALLRLPKKRGTFIEFRNGMLNISP IGRSCTLEERIEFSELDKKEKIREKFVEALKTEFAGKGLRFSRGGMISFDVFPEGWDKRYCLDSLDQDSF DTIHFFGNETSPGGNDFEIFADPRTVGHSVVSPQDTVQRCREIFFPETAHEA

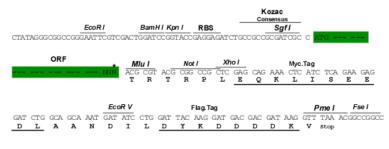
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6308">https://cdn.origene.com/chromatograms/mk6308</a> d06.zip

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_002676

ORF Size: 786 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: <u>NM 002676.3</u>

**RefSeq Size:** 1295 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

**MW:** 29.7 kDa

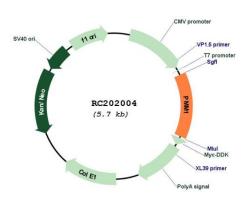
Gene Summary: Phosphomannomutase catalyzes the conversion between D-mannose 6-phosphate and D-

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

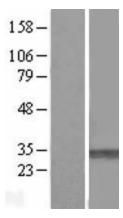
glycosylation and thus the secretion of several glycoproteins as well as for the synthesis of glycosyl-phosphatidyl-inositol (GPI) anchored proteins. [provided by RefSeq, Jul 2008]

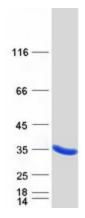
## **Product images:**



Circular map for RC202004







Western blot validation of overexpression lysate (Cat# [LY419180]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202004 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PMM1 protein (Cat# [TP302004]). The protein was produced from HEK293T cells transfected with PMM1 cDNA clone (Cat# RC202004) using MegaTran 2.0 (Cat# [TT210002]).