

Product datasheet for **RG203472**

PMM2 (NM_000303) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMM2 (NM_000303) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PMM2
Synonyms:	CDG1; CDG1a; CDGS; PMI; PMI1; PMM 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203472 representing NM_000303 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCAGCGCCTGGCCAGCGCTCTGCCTCTTCGACGTGGATGGGACCCTCACCGCCCCGCGCAGAAAA
TTACCAAAGAAATGGATGACTTCTACAAAAATTGAGGCAGAAGATCAAATCGGAGTGGTAGGCGGATC
GGACTTTGAGAAAGTGCAGGAGCAACTGGGAAATGATGTGGTTGAAAAATACGATTATGTGTTCCAGAA
AATGGCTTGGTAGCATACAAAGATGGGAACTCTGTGTAGACAGAATATCAAAGTCATCTGGGTGAGG
CCCTAATCCAAGATTTAATCAACTACTGTCTGAGCTACATTGCGAAAATTAAGTCCCGAAGAAGAGGGG
TACTTTTATTGAATTCGAAATGGGATGTTAAAGTGTCCCTATTGGAAGAAGCTGCAGCCAAGAAGAA
CGCATTGAGTTCTACGAACTCGATAAAAAAGAAAATATAAGACAAAAGTTTGTAGCAGATCTACGGAAAG
AGTTTGCTGGAAAAGGCCTCACGTTTTCCATAGGAGGCCAGATCAGCTTTGATGTCTTCTGATGGATG
GGACAAGAGATACTGTCTGCGACATGTGGAAAATGACGGTTATAAGACCATTTATTTCTTTGGAGACAAA
ACTATGCCAGGTGGCAATGACCATGAGATCTTCACAGACCCCGAACCATGGGCTACTCCGTGACAGCGC
CTGAGGACACGCGCAGGATCTGTGAAGTCTGTTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203472 representing NM_000303
 Red=Cloning site Green=Tags(s)

MAAPGPALCLFDVDGTLTAPRQKITKEMDDFLQKLRQKIKIGVVGSDFEKVQEQLGNDVVEKYDYVFPE
 NGLVAYKDGKLLCRNIQSHLGEALIQDLINYLSTYIAKIKLPKRGTFIEFRNGMLNVSPIGRSCSQEE
 RIEFYELDKKENIRQKFVADLRKEFAGKGLTFSIGGQISFDVFPDGDWKRYCLRHVENDGYKTIYFFGDK
 TMPGGNDHEIFDPRMTMGYSVTAPEDTRRICELLFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000303

ORF Size: 738 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: [NM_000303.3](#)

RefSeq Size: 2302 bp

RefSeq ORF: 741 bp

Locus ID: 5373

UniProt ID: [O15305](#)

Cytogenetics: 16p13.2

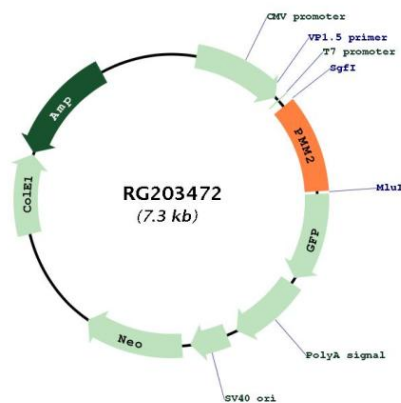
Domains: PMM

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]

Product images:



Circular map for RG203472