

## Product datasheet for **RG215039**

### **PMPCB (NM\_004279) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PMPCB (NM_004279) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PMPCB
Synonyms:	Beta-MPP; MAS1; MPP11; MPPB; MPPP52; P-52
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215039 representing NM\_004279  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCTGCGCGGCTCGAGTGGTGTTCATCCGCGCGCGAGGCGGCTCTGGGGTTTCAGCGAGA  
 GTCTTCTAATCCGAGGCGCTGCGGGACGGTCATTATTTTGGAGAGAACAGATTAAGAAGTACACAGGC  
 TGCTACCCAAGTTGTTCTGAATGTTCTGAAACAAGAGTAACATGTTTAGAAAAGTGGACTCAGAGTAGCT  
 TCGGAAGACTCTGGGCTCTCAACATGCACAGTTGGACTCTGGATTGATGCTGGAAGTAGATACGAAAATG  
 AGAAGAACAATGGAACAGCACACTTTCTGGAGCATATGGCTTTCAAGGGCACCAAGAAGAGATCCCAGTT  
 AGATCTGGAACCTGAGATTGAAAATATGGGTGCTCATCTCAATGCCTATACCTCCAGAGAGCAGACTGTA  
 TACTATGCCAAAGCATTCTAAAGACTTGCCAAGAGCTGTAGAAATCTTGCTGATATAATAACAAAACA  
 GCACATTGGGAGAAGCAGAGATTGAACGTGAGCGTGGAGTAATCCTTAGAGAGATGCAGGAAGTTGAAAC  
 CAATTTACAAGAAGTTGTTTTGATTATCTTCATGCCACAGCTTATCAAATACTGCACTTGGACGGACA  
 ATTTTGGGACCAACTGAAAATATCAAATCTATAAGTCGTAAAGACTTAGTGGATTATATAACCACACATT  
 ATAAGGGGCCAAGAATAGTGCTTGTGCTGCTGGAGGTGTTCCCATGATGAATTGCTTGACTTAGCAAA  
 GTTTCATTTCCGTGACTCTTATGCACACACAAAGGAGAAATACCAGCTCTGCCTCCCTGCAAAATCACA  
 GGAAGTGAGATTCGTGTGAGGGATGACAAGATGCCTTTGGCGCACCTTGAATAGCTGTTGAAGCTGTTG  
 GTTGGGCACATCCAGATAACAATCTGTCTCATGGTTGCAACACGCTGATTGGCAACTGGGATCGCTCTTT  
 TGGGGGAGGAATGAATTTATCTAGCAAGCTGGCCAGCTCACTTGTATGGCAATCTTTGCCATAGCTTT  
 CAGTCTTTCAACACTTCTACACAGATACAGGATTATGGGGACTGTATATGGTTTGTGAATCATCCACTG  
 TTGCAGACATGCTACATGTTGTTCAAAAAGAATGGATGCGACTGTACAAGTGCACAGAAAGTGAAGT  
 TGCACGAGCCAGAAATCTCTGAAAACAACATGTTGTTGCAGCTTGATGGTTCACTCCAATTTGTGAA  
 GATATTGGTAGGCAATGTTATGCTATAATAGAAGGATCCCATCCCTGAGCTTGAAGCAAGAATTGATG  
 CTGTGAATGCTGAGACAATTCGAGAAGTATGTACCAAATACATTTATAATAGGAGTCCAGCTATTGCTGC  
 TGTTGGTCCCATTAAGCAACTACCAGATTTTAAACAGATACGCAGTAACATGTGTTGGCTTCGTGAT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215039 representing NM\_004279  
 Red=Cloning site Green=Tags(s)

MAAAAARVVLSSAARGGLWGFSESLIRGAAGRSLYFGENRLRSTQAATQVVLNVPETRVTCLESLRVA  
 SEDSGLSTCTVGLWIDAGSRYENEKNGTAHFLEHMAFKGTTKRSQDLLELEIENMGAHLNAYTSREQTV  
 YYAKAFSKDLPRAVEILADIIQNSTLGEAEIERERGVILREMQEVETNLQEVVFDYLHATAYQNTALGRT  
 ILGPTENIKSISRKDLVDYITTHYKGPRIVLAAGGVSHDELLDLAKFHFGDSLCTHKGEIPALPPCKFT  
 GSEIRVRDDKMPLAHLAIAVEAVGWAHPDTICLMVANTLIGNWDRSFGGMNLSSKLAQLTCHGNLCHSF  
 QSFNTSYTDTGLWGLYMCESSTVADMLHVQKEWMRLCTSVTESEVARARNLLKTNMLLQLDGSTPICE  
 DIGRQMLCYNRRIPPELEARIDAVNAETIREVCTKYIYNRSPAIAAVGPIKQLPDFKQIRSNMCWLRD

**TRTRPLE** – GFP Tag – V

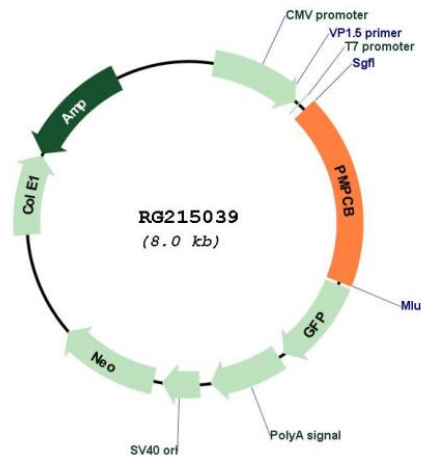
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_004279

ORF Size: 1467 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004279.1</a> , <a href="#">NP_004270.1</a>
<b>RefSeq Size:</b>	1771 bp
<b>RefSeq ORF:</b>	1470 bp
<b>Locus ID:</b>	9512
<b>UniProt ID:</b>	<a href="#">O75439</a>
<b>Cytogenetics:</b>	7q22.1
<b>Domains:</b>	Peptidase_M16, Peptidase_M16_C
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	This gene is a member of the peptidase M16 family and encodes a protein with a zinc-binding motif. This protein is located in the mitochondrial matrix and catalyzes the cleavage of the leader peptides of precursor proteins newly imported into the mitochondria, though it only functions as part of a heterodimeric complex. [provided by RefSeq, Jul 2008]