

Product datasheet for **MG216896**

Pmpcb (NM_028431) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Pmpcb (NM_028431) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Pmpcb |
| Synonyms: | 3110004O18Rik; MPP11; MPPB; MPPP52 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG216896 representing NM_028431
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCGGCCGCTCTATCCCGACGCTGTTGCCAGAGGCCCGCGCGCCTGTGGGGATTACACGAA
 GGCTTCCGCTTCGCCGCGCCGCTGCTCAGCCGTTGACTTTGGAGGGACCGACTAAGAAGCACACAGGC
 TGCCCCACAGTTGTGCTGAATGTCGCCGAGACACAAGTGACATGTTTGAAAATGGACTCAGAGTAGCT
 TCTGAAAACCTCTGGGCTCTCAACGTGCACAGTTGGGCTGTGGATCGATGCGGGAAGTCGCTATGAGAATG
 AGAAGAACAACGGCACC GCCACTTCTGGAGCACATGGCCTTCAAGGGCACTAAAAAGAGTCCCAGTT
 AGACCTTGAACCTGAGATTGAGAATATGGGCGCTCATCTTAACGCCTATACCTCCAGAGAGCAGACTGTC
 TACTACGCCAAAGCATTCTCGAGAGATTGCCAGAGCTGTAGAAATCTTGCTGACATAATTCAGAACA
 GCACACTGGGAGAAGCAGAGATTGAGCGTGAGCGGGGAGTAATCCTGAGAGAGATGCAGGAAGTTGAAAC
 CAACTTGAAGAAGTTGTTTTGATTATCTTCATGCGACAGCCTATCAAATACTGCACTTGGACGGACA
 ATTCTGGGACCAACTGAAAATATCAAATCTATAAATCGTAAGGACCTAGTGGATTACATAACCACACACT
 ACAAGGGACCAAGAATTGTACTGGCTGCCGCCGGAGGTGTTTGCATAACGAACTGCTGGAGTTAGCAAA
 GTTCCATTTTGGTGACTCTTTGTGCTCACACAAAGGAGCTATACCAGCTCTGCCTCCCTGCAAGTCACT
 GGAAGTGAGATTCGGGTGAGGGATGACAAGATGCCATTGGCGCACCTTGAATAGCTGTTGAAGCAGTTG
 GTTGGGCCCATCCAGACACGATCTGTCTCATGGTCGCAAACACATTGATAGGCAACTGGGATCGCTCTTT
 TGGAGGAGGAATGAATTTATCTAGCAAGCTGGCCAACTCACTTGCCATGGCAATCTCTGCCACAGCTTC
 CAGTCTTCAATACTTACATACAGACACAGGATTATGGGGACTCTATATGGTCTGTGAACAAGCCACGG
 TTGCTGACATGCTGCACGTTGTACAAAACGAATGGAAGCGTCTGTGTACAGATGTGACTGAGAGTGAGGT
 TGCACGTGCAAAAAATCTTCTGAAAACAAACATGCTGCTGCAGCTTGATGGGTCAACTCCAATTTGTGAA
 GACATTGGTAGGCAGATGCTATGCTATAATAGGAGAATCCTATCCCGAGCTTGAAGCAAGAATTGATG
 CTGTGGATGCGGAGACGGTTCGACGAGTGTGCACCAAGTACATTCATGACAAAAGCCAGCTATTGCTGC
 TCTGGGTCCTATTGAGCGACTACCAGATTTTAACCAGATTTGTAGTAACATGCGTTGGATTCTGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216896 representing NM_028431
 Red=Cloning site Green=Tags(s)

MAAAALSRTLPEARRRLWGFTRRLPLRRAAAQPLYFGGDLRSTQAAPQVVLNVPETQVTCLENGLRVA
 SENSLSTCTVGLWIDAGSRYENEKNGTAHFLEHMAFKGTTKRSQDLLELEIENMGAHLNAYTSREQTV
 YYAKAFSRDLPRAVEILADIIQNSTLGEAEIERERGVILREMQEVETNLQEVVFDYLHATAYQNTALGRT
 ILGPTENIKSINRKDLVDYITTHYKGPRIVLAAGGVCHNELLELAKFHFGDSLCSHGAIIPALPPCKFT
 GSEIRVRDDKMPLAHLAIAVEAVGWAHPDTICLMVANTLIGNWDRSFGGGMNLSKLAQLTCHGNLCHSF
 QSFNTSYTDTGLWGLYMVCEQATVADMLHVQNEWKRLCTDVTESEVARAKNLLKTNMMLQLDGSTPICE
 DIGRQMLCYNRRIPPELEARIDAETAETVRRVCTKYIHKSPAIAALGPIERLPDFNQICSNMRWIRD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_028431

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).

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_028431.2](#), [NP_082707.1](#)

RefSeq Size: 1596 bp

RefSeq ORF: 1470 bp

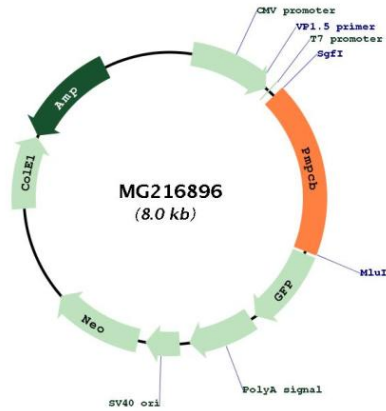
Locus ID: 73078

UniProt ID: [Q9CXT8](#)

Cytogenetics: 5 A3

Gene Summary: Catalytic subunit of the essential mitochondrial processing protease (MPP), which is required for maturation of the majority of mitochondrial precursor proteins (By similarity). Most MPP cleavage sites follow an arginine at position -2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216896