

## Product datasheet for **MR208414**

### **Pmpca (NM\_173180) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pmpca (NM_173180) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pmpca
Synonyms:	1200002L24Rik; 4933435E07Rik; Alpha-MPP; P-55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208414 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGACGGCAGTGTGGCGGCTGCGCGGCTGCTTCGGGGATCTGCGGTGCTGTGCGCGCGGCCAGGT  
 TTGGATCTCCTGCACACAGACGGTTCAGCAGTGGTGCCACCTACCCCAACATCCCCTCTCTTCCCTT  
 GCCTGGAGTACCAAGCCTATTTTTGCAACAGTTGATGGACAGGAAAAGTTTGAACCAAAGTTACCACT  
 CTGGACAATGGGCTTCGTGTGGCATCTCAAATAAGTTTGGACAATTCTGTACCGTAGGAATTCTTATTA  
 ATTCAGGATCACGATATGAAGCGAAATATCTTAGTGAATAGCTCATTTTTTGGAAAAATTGGCATTTC  
 GTCCACTGCTCGATTTGACAGCAAAGACGAAATCCTGCTACGCTGAAAAACATGGTGGTATCTGTGAC  
 TGCCAGACCTCAAGAGACACCACCATGTATGCTGTGTCTGCTGACAGCAAAGGCTTGACACTGTGGTGG  
 ATCTGTTGGCTGATGTGGTTCTGCACCCCGACTGACAGATGAAGAAATTGAGATGACGAGGATGGCTGT  
 GCAGTTTGAAGTACAGGACCTGAACATGAGACCTGACCCAGAGCCACTGCTCACCAGATGATTCATGAA  
 GCTGCTTTTAGGGAGAACACAGTGGGTCTGCACCGGTTCTGCCCTGTAGAGAACATAGCGAAGATCGATC  
 GGAAGTGTGCTGACTCCTACCTAAAGAATACTACACCCCTGACCGCATGGTGTCTGGGGTGGGCGT  
 GGAGCATGAGCACCTAGTAGAATGTGCCAGAAAGTACCTCGTGGGAGCCGAGCCTGCCTGGGGAGCCCT  
 GGAACGGTGGACGTTGACAGATCAGTGGCACAGTACACTGGGGGATCATCAAGTGGAAAGAGACATGT  
 CAAATGTCAGCCTTGGCCCAACCCCAATTCAGAGCTCACACACATCATGGTGGGACTGGAGAGCTGTT  
 CTTCCTGGAGGACGACTTATCCCCTTGTCTGTCTGAATATGATGATGGGAGGAGGGGCTCCTTCTCA  
 GCTGGAGGGCTGGCAAAGGCATGTTCTCCAGGCTCTACCTCAATGTGCTCAATCGGCACCACTGGATGT  
 ACAATGCAACCTCTACCACACAGCTATGAAGATACAGGCCTCCTGTGCATTGATGCCAGCCAGACCC  
 AAGACAAGTTCGAGAAATGGTAGAAATCATCACAAAGGAGTTTATCTTGATGGGCAGGACGGTGGATTTG  
 GTGGAGCTAGAGCGGGCAAGACACAGCTCATGTCCATGCTCATGATGAACCTGGAGTCCAGGCCTGTGA  
 TTTTTGAGGATGTGGGAGGCAGGTGTTGGCTACACATTCAAGAAAGCTGCCCCACGAGCTATGTACACT  
 CATTTCGAACGTGAAGCCAGAAGATATCAAGAGGGTGTCTCCAAGATGCTCCGTGGCAAGCCTGCTGTG  
 GCTGCCCTGGGTGATTTGACTGACCTACCCACCTATGAGCACATCCAGGCAGCGCTGTCCAGCAGAAATG  
 GACACCTGCCAGATCATACCGGCTGTTCCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208414 protein sequence  
 Red=Cloning site Green=Tags(s)

MATAVWAAARLLRGSAVLCARPRFGSPAHRRFSSGATYPNIPLSSPLPGVPKPIFATVDGQEKFKVTT  
 LDNGLRVASQNKFGQFCTVGILINSGSRYEAKYLSGIAHFLEKLAFSSTARFDSKDEILLLEKHGGICD  
 CQTSRDTTMYAVSADSKGLDVTVDLLADVVLHPRLTDEEIEMTRMAVQFELEDLNMRPDPEPLLTEMIHE  
 AAFRENTVGLHRFCPVENIAKIDREVLHLSYLNYYTPDRMVLAVGVVEHEHLVECARKYLVAEPAWGAP  
 GTVDVDRSVAQYTGGIKVERDMSNVS LGPTPIPELTHIMVGLSCSFLEDDFIPFVAVLNMMGGGGSFS  
 AGGPGKGMFSRLYLNVLNRHHWYNATSYHHSYEDTGLLCIHASADPRQVREMEIITKEFILMGRVDL  
 VELERAKTQLMSMLMMNLESRPVIFEDVGRQVLATHSRKLPHELCTLIRNVKPEDIKRVASKMLRGKPAV  
 AALGDLTDLPTYEHIQAALSSRNHGLPRSYRLFR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_173180

**ORF Size:** 1575 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\\_173180.3](#), [NP\\_775272.1](#)

**RefSeq Size:** 3125 bp

**RefSeq ORF:** 1575 bp

**Locus ID:** 66865

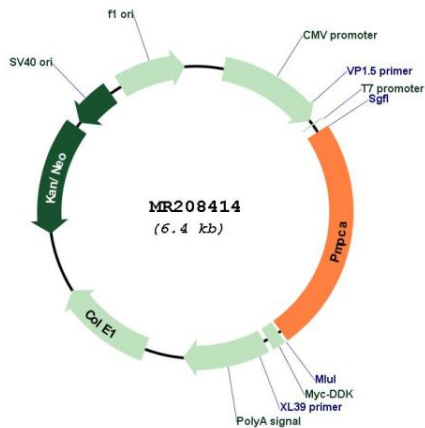
**UniProt ID:** [Q9DC61](#)

**Cytogenetics:** 2 A3

**MW:** 58.3 kDa

**Gene Summary:** Substrate recognition and binding 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 MR208414