

## Product datasheet for **RR206345**

### **Pmpca (NM\_001003673) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pmpca (NM_001003673) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pmpca
Synonyms:	MGC93916
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR206345 representing NM\_001003673  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGACGGCAGTGTGGCGGCTGCGCGGCTACTTCGGGTTCTGCGGCGCTGTGCGCGGGCCCAAGT  
 TCGGTTCTCCTGCACACAGACGGTTCAGCAGTGGCGCCACCTACCCCAACATCCCTCTCTTCTCCCTT  
 GCCCGGAGTGCCCAAGCCTATTTTTGCTACAGTTGATGGACAGGAAAAGTTTGAACCAAAAGTCAACCACT  
 CTGGACAATGGGCTTCGTGTGGCATCTCAAATAAGTTTGGACAGTTCTGTACCTTAGGAATTTCTATTA  
 ATTCAGGATCACGATATGAAGCGAAATATCTTAGTGAATTGCTCATTTTCTGGAAAAATGGCATTTC  
 GTCTACCGCTCGATTTGACAGCAAAGATGAAATCTGCTTACCCTGAAAAACATGGTGGTATCTGTGAC  
 TGCCAGACCTCGAGAGACACCACCATGTATGCTGTGTCTGCTGACAGCAAAGGCTGGACACTGTGGTGG  
 GCCTGCTGGCTGATGTGGTTCTGCACCCCGCCTGACAGATGAGGAAATTGAGATGACGAGGATGGCTGT  
 TCAGTTTGAACCTTGAGGACCTGAACATGAGACCTGACCCAGAGCCACTGCTCACCAGATGATTCATGAA  
 GCTGCTTTTAGGGAGAACACGGTGGGCCTGCACCGGTTTTGTCTGTAGAGAACATAGGGAAGATTGACC  
 GAGAAGTGTGCATTCTACCTGAAGAATACTACACCCCGACCGCATGGTGTCTGGAGTGGGCGT  
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 CTTCTGGAGGAGGATTTATCCCTTTGCTGTGTTGAATATGATGATGGGAGGCGGGGCTCCTTCTCG  
 GCCGGAGGGCTGGCAAAGGCATGTTCTCCAGGCTCTACCTCAACGTCTCAATCGGCACCACTGGATGT  
 ATAATGCAACCTCTACCACACAGCTATGAAGACACAGGCCTCCTGTGCATCCATGCCAGCAGACCC  
 TCGACAGTTTCGAGAAATGGTAGAAATCATCACAAGGAGTTTATTTTGTGGCCGAACGGTGGATTTG  
 GTGGAGCTGGAGCGGGCAAGACACAGCTGATGTCCATGCTCATGATGAACCTGGAGTCCAGGCCTGTGA  
 TCTTTGAGGATGTGGGAGGAGGTTGGCTACACATCAAGAAAGCTGCCCCATGAGCTGTGCACACT  
 CATTTCGAATGTGAAGCCGAAGATATCAAGAGGGTTGCTTCCAAGATGCTCCGAGGCAAGCCTGCTGTG  
 GCCGCTCTGGGTGATTTGACTGACCTGCCACGTATGAACACATCCAGGCAGCGCTGTCCAGCAGAGATG  
 GGCGCTGCCAGAACATACCGGCTGTTCCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206345 representing NM\_001003673  
 Red=Cloning site Green=Tags(s)

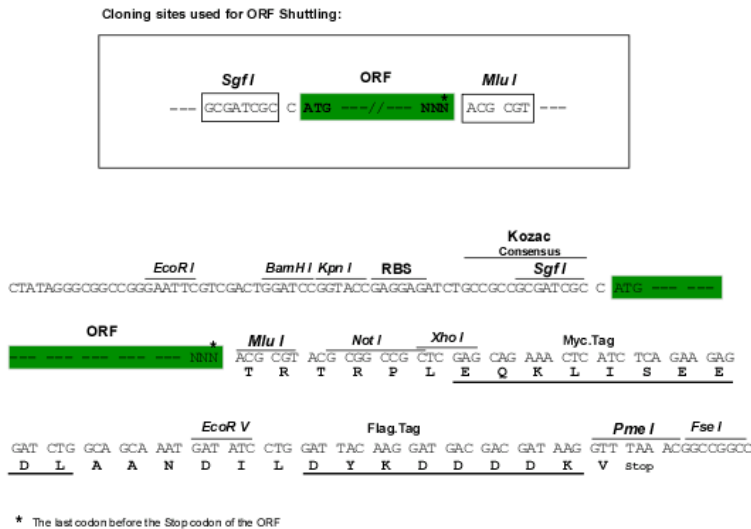
MATAVWAAARLLRGSAAALCARPKFGSPAHRRFSSGATYPNIPLSSPLPGVPKPIFATVDGQEKFKVTT  
 LDNGLRVASQNKFGQFCTLGILINSGSRYEAKYLSGIAHFLEKLAFSSTARFDSKDEILLLEKHGGICD  
 CQTSRDRTMYAVSADSKGLDVTVGLLADVVLHPRLTDEEIEMTRMAVQFELEDLNMRPDPEPLLTEMIHE  
 AAFRENTVGLHRFCPVENIGKIDREVLHLSYLNYYTPDRMVLAVGVVEHEHLVECARXYLLGVQPAWGAP  
 GAVDVSVAQYTGGIKVERDMSNLSLPTPIPELTHIMVGLSCSFLEEDFIPFVLLNMMGGGGSFS  
 AGGPGKGMFSRLYLNVLNRHHWYMNATSYHHSYEDTGLLCIHASADPRQVREMEIITKEFILMGRVDL  
 VELERAKTQLMSMLMMNLESRPVIFEDVGRQVLATHSRKLPHELCTLIRNVKPEDIKRVASKMLRGKPAV  
 AALGDLTDLPTYEHIQAALSSRDGRLPRTYRLFR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_001003673

**ORF Size:** 1572 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\\_001003673.1](#), [NP\\_001003673.1](#)

**RefSeq Size:** 1760 bp

**RefSeq ORF:** 1575 bp

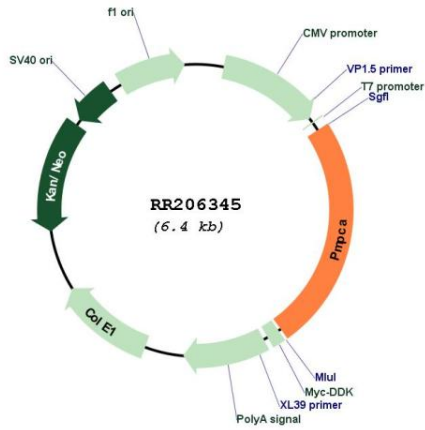
**Locus ID:** 296588

**Cytogenetics:** 3p13

**MW:** 58.2 kDa

**Gene Summary:** alpha subunit of the general mitochondrial matrix processing protease [RGD, Feb 2006]

**Product images:**



Circular map for RR206345