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# Product datasheet for RC237948

## PMPCA (NM_001282944) Human Tagged ORF Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | PMPCA (NM_001282944) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | PMPCA |
| **Synonyms:** | Alpha-MPP; CLA1; CPD3; INPP5E; MAS2; P-55; SCAR2 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **ORF Nucleotide Sequence:** | >RC237948 representing NM_001282944<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGAAGCGAAATACCTTAGTGGAATTGCTCACTTTTTGGAAAAATTGGCATTTTCGTCTACTGCTCGATT<br>TGACAGCAAAGATGAAATTCTGCTTACGTTGGAAAAGCATGGGGGTATCTGTGACTGCCAGACATCAAGA<br>TGAAGAAGTCGAGATGACGCGGATGGCGGTCCAGTTTGAGCTGGAGGACCTGAACCTGCGGCCTGACCCA<br>GAGCCACTTCTCACCGAGATGATTCATGAAGCGGCTTACAGGGAGAACACAGTTGGCCTCCACCGTTTCT<br>GCCCCACAGAAAACGTAGCAAAGATCAACCGAGAGGTGCTGCATTCCTACCTGAGGAACTACTACACTCC<br>CGACCGCATGGTGCTGGCCGGCGTGGGCGTGGAGCACGAGCATCTGGTGGACTGTGCCCGGAAGTACCTC<br>CTGGGGGTCCAGCCGGCCTGGGGGAGCGCAGAGGCCGTGGATATTGACAGATCTGTGGCCCAGTACACTG<br>GGGGGATTGCCAAGCTAGAAAGAGACATGTCCAATGTCAGCCTGGGCCCGACCCCCATCCCCGAGCTCAC<br>GCACATCATGGTTGGACTGGAGAGCTGCTCCTTCCTGGAGGAGGACTTCATCCCCTTTGCAGTGTTGAAC<br>ATGATGATGGGCGGAGGTGGCTCCTTCTCGGCTGGTGGGCCCGGCAAGGGCATGTTCTCCAGGCTCTACC<br>TCAACGTGCTCAACAGGCACCACTGGATGTATAACGCGACCTCCTACCACCACAGCTACGAGGACACTGG<br>CCTCCTTTGCATCCATGCCAGCGCCGACCCAAGACAGGTTCGAGAAATGGTAGAAATCATCACAAAGGAG<br>TTTATTTTAATGGGCGGAACCGTGGACACGGTGGAGCTGGAACGAGCCAAGACGCAGCTGACATCAATGC<br>TCATGATGAACCTGGAATCCAGGCCTGTGATCTTCGAGGATGTGGGGAGGCAGGTGCTGGCCACTCGCTC<br>CAGAAAGCTGCCGCACGAGCTGTGCACGCTCATCCGCAACGTGAAGCCGGAAGATGTGAAGAGAGTCGCT<br>TCTAAGATGCTCCGAGGGAAGCCGGCAGTGGCCGCCCTGGGTGACCTGACTGACCTGCCCACGTATGAGC<br>ACATCCAGACCGCCCTGTCGAGTAAGGACGGGCGCCTGCCCAGGACGTACCGGCTCTTCCGG<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |



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**Protein Sequence:**

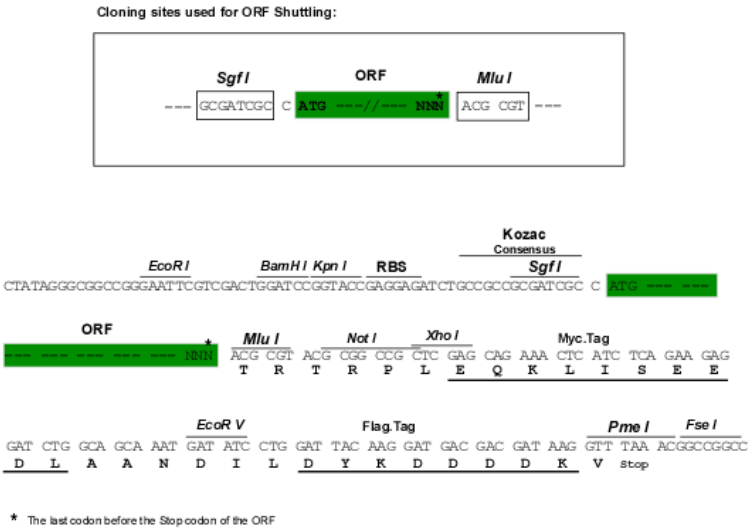
>RC237948 representing NM_001282944
Red=Cloning site Green=Tags(s)

MKRNTLVELLTFWKNWHFRLLLDLTAKMKFCLRWKSMGVSVTARHQDEEVEMTRMAVQFELEDLNLRPDP
EPLLTEMIHEAAYRENTVGLHRFCPTENVAKINREVLHSYLRNYYTPDRMVLAGVGVEHEHLVDCARKYL
LGVQPAWGSAEAVDIDRSVAQYTGGIAKLERDMSNVSLGPTPIPELTHIMVGLESCSFLEEDFIPFAVLN
MMMGGGGSFSAGGPGKGMFSRLYLNVLNRHHWMYNATSYHHSYEDTGLLCIHASADPRQVREMVEIITKE
FILMGGTVDTVELERAKTQLTSMLMMNLESRPVIFEDVGRQVLATRSRKLPHELCTLIRNVKPEDVKRVA
SKMLRGKPAVAALGDLTDLPTYEHIQTALSSKDGRLPRTYRLFR

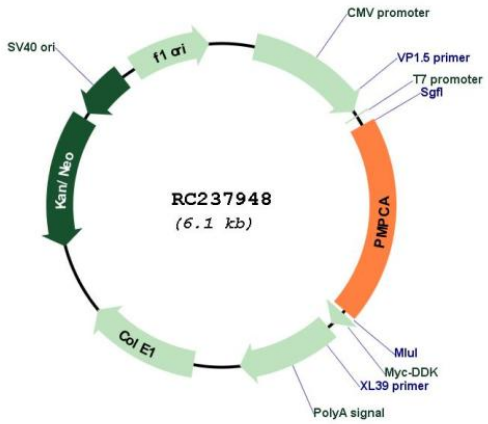
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_001282944

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| **ORF Size:** | 1182 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001282944.1, NP_001269873.1 |
| **RefSeq Size:** | 2087 bp |
| **RefSeq ORF:** | 1185 bp |
| **Locus ID:** | 23203 |
| **UniProt ID:** | Q10713 |
| **Cytogenetics:** | 9q34.3 |
| **Protein Families:** | Druggable Genome, Protease |
| **MW:** | 45.3 kDa |
| **Gene Summary:** | The protein encoded by this gene is found in the mitochondrion, where it represents the alpha subunit of a proteolytic heterodimer. This heterodimer is responsible for cleaving the transit peptide from nuclear-encoded mitochondrial proteins. Defects in this gene are a cause of spinocerebellar ataxia, autosomal recessive 2. [provided by RefSeq, Mar 2016] |