

## Product datasheet for **RG217017**

### **PMPCA (NM\_015160) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PMPCA (NM_015160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PMPCA
Synonyms:	Alpha-MPP; CLA1; CPD3; INPP5E; MAS2; P-55; SCAR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG217017 representing NM\_015160  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCTGTGGTCTGGCGGCACGCGTTGCTGCGGGGCTCGGGTTCTTGGGGCTGTTCCGGCTGA  
 GGTTTGGACCTCCTGCGTACAGACGTTTGTAGTAGTGGTGGTGCCTATCCCAACATCCCCCTCTTCTCC  
 CTTACCTGGAGTACCCAAGCCTGTTTTTGTACAGTTGATGGACAGGAAAAGTTTGAACCAAAGTAACC  
 ACATTGGATAATGGGCTTCGCGTGGCATCTCAGAATAAGTTTGGACAGTTTGTACAGTAGGAATCTTA  
 TCAATTCAGGATCGAGATATGAAGCGAAATACCTTAGTGAATTGCTCACTTTTTGGAAAAATTGGCATT  
 TTCGCTACTGCTCGATTTGACAGCAAAGATGAAATCTGCTTACGTTGGAAAAGCATGGGGTATCTGT  
 GACTGCCAGACATCAAGAGACACCACCATGTATGCTGTGCTGCTGATAGCAAAGGCTTGGACACGGTGG  
 TTGCCTTACTGGCTGATGTGTTCTGCAGCCCCGGCTAACAGATGAAGAAGTCGAGATGACGCGGATGGC  
 GGTCAGTTTGGCTGGAGGACCTGAACCTGCGGCCTGACCCAGAGCCACTTCTCACCGAGATGATTCAT  
 GAAGCGGCTTACAGGGAGAACACAGTTGGCCTCCACCGTTTCTGCCCCACAGAAAACGTAGCAAAGATCA  
 ACCGAGAGGTGCTGCATTCTACCTGAGGAACTACTACACTCCCACCGCATGGTCTGGCCGGCGTGGG  
 CGTGGAGCACGAGCATCTGGTGGACTGTGCCCGGAAGTACCTCCTGGGGTCCAGCCGGCCTGGGGGAGC  
 GCAGAGGCCGTGGATATTGACAGATCTGTGGCCAGTACACTGGGGGATTGCCAAGCTAGAAAGAGACA  
 TGTCCAATGTCAGCCTGGGCCGACCCCATCCCCGAGCTCACGCACATCATGGTTGGACTGGAGAGCTG  
 CTCCTTCTGGAGGAGACTTCAATCCCCTTTGCAGTGTGAACATGATGATGGGCGGAGGTGGCTCCTTC  
 TCGGCTGGTGGGCCCGCAAGGGCATGTTCTCCAGGCTTACCTCAACGTGCTCAACAGGCACCACCTGGA  
 TGTATAACGCGACCTCTACCACCACAGCTACGAGGACACTGGCCTCCTTTGCATCCATGCCAGCGCCG  
 CCCAAGACAGGTTTCGAGAAATGGTAGAAATCATCACAAGGAGTTTATTTAATGGGCGGAACCGTGGAC  
 ACGGTGGAGCTGGAACGAGCCAAGACGAGCTGACATCAATGCTCATGATGAACCTGGAATCCAGGCCTG  
 TGATCTTCGAGGATGTGGGGAGGAGGTGCTGGCCACTCGCTCCAGAAAGCTGCCGCACGAGCTGTGCAC  
 GCTCATCCGCAACGTGAAGCCGGAAGATGTGAAGAGAGTCGTTCTAAGATGCTCCGAGGGAAGCCGGCA  
 GTGGCCGCCCTGGGTGACCTGACTGACCTGCCACGTATGAGCACATCCAGACCGCCTGTGAGTAAGG  
 ACGGGCGCCTGCCAGGACGTACCGCTCTTCCGG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG217017 representing NM\_015160  
 Red=Cloning site Green=Tags(s)

MAAVVLAATRLLRSGSWGCSRLRFPPAYRRFSSGGAYPNIPSSPLPGVPKPVFATVDGQEKFKETKVT  
 TLDNGLRVASQNKFGQFCTVGILINSGSRYEAKYLSGIAHFLEKLAFFSSTARFDSKDEILLTLEKHGGIC  
 DCQTSRDTTMYAVSADSKGLDVTVALLADVVLQPRLTDEEVEMTRMAVQFELEDLNLRPDPEPLLEMIH  
 EAAYRENTVGLHRFCPTENVAKINREVLHSHYLRNYTPDRMVLAVGVVEHEHLVDCARKYLLGVQPAWGS  
 AEAVDIDRSVAQYTGGI AKLERDMSNVSLGPTIPELTHIMVGLSECSFLEEDFIPFAVLNMMGGGGSF  
 SAGGPGKGMFSRLYLNLNRHHWYNATSYHHSYEDTGLLCIHASADPRQVREMEIITKEFILMGGTVD  
 TVELERAKTQLTSMMLMNLESRPVIFEDVGRQVLATRSRKLPHLCTLIRNVKPEDVKRVASKMLRGKPA  
 VAALGDLTDLPTYEHIQTALSSKDGRLPRTYRLEFR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_015160
<b>ORF Size:</b>	1575 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_015160.3</a>
<b>RefSeq Size:</b>	2097 bp
<b>RefSeq ORF:</b>	1578 bp
<b>Locus ID:</b>	23203
<b>UniProt ID:</b>	<a href="#">Q10713</a>
<b>Cytogenetics:</b>	9q34.3
<b>Domains:</b>	Peptidase_M16, Peptidase_M16_C
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	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]