

## Product datasheet for **SC307074**

### PPA2 (NM\_176866) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPA2 (NM_176866) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPA2
Synonyms:	HSPC124; SCFAI; SCFI; SID6-306
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_176866, the custom clone sequence may differ by one or more nucleotides ATGAGCGCGCTGCTGCGGCTGCTGCGCACGGGTGCCCCAGCCGCTGCGTGCCTGCGGTTG GGGACCAAGTGCAGGGACCGGGTCGCGCCGTGCTATGGCCCTGTACCACACTGAGGAGCGC GGCCAGCCCTGCTCGCAGAATTACCGCCTCTTCTTTAAGAATGTAAGTGGTCACTACATT TCCCCCTTTCATGATATTCCTCTGAAGGTGAAGTCTAAAGAGATTCTTCTTGTGGAGAA GTTATTTCATGTGAAGATCCTTGAATTTTGGCTCTTATTGATGAAGGTGAAACAGATTGG AAATTAATTGCTATCAATGCGAATGATCCTGAAGCCTCAAAGTTTCATGATATTGATGAT GTTAAGAAGTTCAAACCGGGTTACCTGGAAGCTACTCTTAATTGGTTTAGATTATATAAG GTACCAGATGGAAAACCGAAAACAGTTTGCTTTAATGGAGAATTCAAAAACAAGGCT TTTGCTCTTGAAGTTATTAATCCTCACTCATCAATGTTGGAAGCATTGCTTATGAAGAAG TGTAATGGAGGAGCTATAAATTGCACAAACGTGCAGATATCTGATAGCCCTTTCGGTTGC ACTCAAGAGGAAGCAAGATCATTAGTTGAATCGGTATCATCTTCCACCAATAAAGAAAGT AATGAAGAAGAGCAAGTGTGGCACTTCTTGGCAAGTGA
Restriction Sites:	Please inquire
ACCN:	NM_176866
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



[View online »](#)

**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\\_176866.2](#), [NP\\_789842.2](#)

**RefSeq Size:** 1376 bp

**RefSeq ORF:** 699 bp

**Locus ID:** 27068

**UniProt ID:** [Q9H2U2](#)

**Cytogenetics:** 4q24

**Protein Pathways:** Oxidative phosphorylation

**Gene Summary:** The protein encoded by this gene is localized to the mitochondrion, is highly similar to members of the inorganic pyrophosphatase (PPase) family, and contains the signature sequence essential for the catalytic activity of PPase. PPases catalyze the hydrolysis of pyrophosphate to inorganic phosphate, which is important for the phosphate metabolism of cells. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) lacks an in-frame coding segment, when compared to variant 1. The resulting isoform (3) is shorter and lacks an internal region, as compared to isoform 1.