

Product datasheet for **SC112697**

PPA2 (NM_006903) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPA2 (NM_006903) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPA2
Synonyms:	HSPC124; SCFAI; SCFI; SID6-306
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006903, the custom clone sequence may differ by one or more nucleotides

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ATGAGCGCGCTGCTGCGGCTGCTGCGCACGGGTGCCCCAGCCGCTGCGTGCCTGCGGTTGGGGACCAAGTG
CAGGGACCGGGTCGCGCCGTGCTATGGCCCTGTACCACACTGAGGAGCGCGGCCAGCCCTGCTCGCAGAA
TTACCGCCTCTTCTTTAAGAATGTAAGTGGTCACTACATTTCCCCCTTTCATGATATTCCTCTGAAGGTG
AACTCTAAAGAGGAAAATGGCATTCTATGAAGAAAGCACGAAATGATGAATATGAGAATCTGTTAATA
TGATTGTAGAAAACCTCGGTGGACAAAATGCTAAAATGGAGATTGCCACCAAGGAGCCAATGAATCCCAT
TAAACAATATGTAAGGATGGAAAGCTACGCTATGTGGCGAATATCTTCCCTTACAAGGGTTATATATGG
AATTATGGTACCCTCCCTCAGATTCTTTCTTGTGGAGAAGTTATTCATGTGAAGATCCTTGAATTTTGG
CTCTTATTGATGAAGGTGAAACAGATTGAAAATTAATTGCTATCAATGCGAATGATCCTGAAGCCTCAAA
GTTTCATGATATTGATGATGTTAAGAAGTTCAAACCGGGTTACCTGGAAGCTACTCTTAATTGGTTTAGA
TTATATAAGGTACCAGATGGAAAACAGAAAACAGTTTGGCTTTTAAATGGAGAATTCAAAAAACAAGGCTT
TTGCTCTTGAAGTTATTAATCCACTCATCAATGTTGAAAGCATTGCTTATGAAGAAGTGAATGGAGG
AGCTATAAATTGCACAAACGTGCAGATATCTGATAGCCCTTCCGTTGCACTCAAGAGGAAGCAAGATCA
TTAGTTGAATCGGTATCATCTTCCACAAATAAAGAAAGTAATGAAGAAGCAAGTGTGGCACTTCTCTTG
GCAAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006903 unedited
 CCAAAATTTTGTAAATACGAACTCACTATAGGCGGCCCGCAATTCGCACCAGGTCGCGCCG
 TGCTATGGCCCTGTACCACACTGAGGAGCGGCCAGCCCTGCTCGCAGAATTACCGCCT
 CTTCTTTAAGAATGTAAGTGGTCACTACATTTCCCCCTTTCATGATATTCCTCTGAAGGT
 GAACTCTAAAGAGGAAAAATGGCATTCCCTATGAAGAAAGCACGAAATGATGAATATGAGAA
 TCTGTTTTAATATGATTGTAGAAAACCTCGTGGACAAAATGCTAAAATGGAGATTGCCAC
 CAAGGAGCCAATGAATCCCATTAACAATATGTAAGGATGAAAAGCTACGCTATGTGGC
 GAATATCTTCCCTTACAAGGGTTATATATGGAATTATGGTACCCTCCCTCAGACTTGGGA
 AGATCCCATGAAAAAGATAAGAGCACGAACTGCTTTGGAGATAATGATCCTATTGATGT
 TTGCGAAATAGGCTCAAAGATTCTTTCTGTGGAGAAGTTATTCAATGTAAGATCCTTGG
 AATTNTGGCTCTTATTGATGAAGGTGAAACAGATTGAAAATTAATTGCTATCAATGCGAA
 TGATCCTGAAGCCTCANAGTTTCATGATATTGATGATNGTAAGAAGTTCAAACCCGGTTA
 CCTGGAAGCTACTCTTAATTGGTTTAGATTATATAAGGTACCAGATGGAAAACAGAAAC
 CAGTTTGCTTTTATGGAGAAATCANAACNAGGCTTTTGCTCTTGAAGTATTAATCCCTCA
 TCATGNTGAAAGCATGCTATGAANAAGNTGTATGGAGACTATAATGCCAACGTGCGATA
 CTGAACCCCTTTCTGTCCTCAGAGAAGCAGTCCTTTATGGAATCGGTTCTCTTCCATNAN
 AAGTNTTGAAAAAACCGTTGACTCTTGNACAGGATGACACTGAAATTGTGGCAATCATCT
 G

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006903 unedited
 TTTTTTTTTTTTTTTTTTAAAATCTTACTGTTTATTTATATATTGCATAGCTCAAAGTTT
 GAAAAATGAAGTTTTAACAGGAAGTCAGTAAATGCTCATAGACCCCTTGTCTCTAGCAC
 TTGGAGTCCTTAGAGATGGGAATCTTGACAGCAGAATTCAGATGTTTCAATCACTTGCC
 AAGGAAGTGCCCACTTGTCTTCTTACTTTCTTTATTTGGTGAAGATGATACCGA
 TTCAACTAATGATCTTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
 GTTTGTGCAATTTATAGCTCCTCCATTACACTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
 ATGAGTGGATTTAATAACTTCAAGAGCAAAAGCCTTGTTTTTGAATTTCTCCATTAAGC
 AAAGTGGTTTTCTGGTTTTCCATCTGGTACCTTATATAATCTAAACCAATTAAGAGTAGC
 TTCCAGGTAACCCGGTTTGAAGTCTTAAACATCATCAATATCATGAACTTTGAGGCTTC
 AGGATCATTGCGATTGATAGCAATTAATTTCCAATCTGTTTACCTTCTTCAATAAGAGC
 CAAAATCCAAGGATCTTACATGAATAACTTCTCC

Restriction Sites:

NotI-NotI

ACCN:

NM_006903

Insert Size:

1090 bp

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).

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_006903.3](#), [NP_008834.2](#)

RefSeq Size: 1595 bp

RefSeq ORF: 825 bp

Locus ID: 27068

UniProt ID: [Q9H2U2](#)

Cytogenetics: 4q24

Domains: Pyrophosphatase

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 (2) lacks an in-frame coding segment, when compared to variant 1. The resulting isoform (2) is shorter and lacks an internal region, as compared to isoform 1.