

Product datasheet for SC302792

PPA2 (NM_001034191) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPA2 (NM_001034191) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPA2
Synonyms:	FLJ20459; HSPC124; inorganic pyrophosphatase 2; MGC49850; pyrophosphatase (inorganic) 2; SID6-306
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302792 representing NM_001034191. Blue=Insert sequence Red=Cloning site Green=Tag(s)

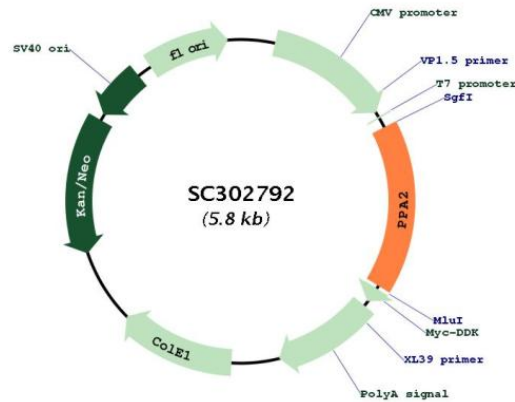
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCGCGCTGCTGCGGCTGCTGCGCACGGGTGCCCCAGCCGCTGCGTGCCGTTGGGACCAGT
GCAGGGACCGGGTCGCGCCGTGCTATGGCCCTGTACCACACTGAGGAGCGCGCCAGCCCTGCTCGCAG
AATTACCGCCTCTCTTTAAGAATGTAAGTGGTCACTACATTTCCCCCTTTCATGATATTCCTCTGAAG
GTGAACCTAAAGAGGAAAATGGCATTCTATGAAGAAAGCACGAAATGATGAATATGAGATTGCCACC
AAGGAGCCAATGAATCCATTAAACAATATGTAAGGATGGAAAGCTACGCTATGTGGCAATATCTTC
CCTTACAAGGTTATATATGGAATTATGGTACCCTCCCTCAGACTTGGGAAGATCCCATGAAAAGAT
AAGAGCACGAAGTCTTTGGAGATAATGATCCTATTGATGTTTGGCAAATAGGCTCAAAGATTCTTCT
TGTGGAGAAGTTATTCATGTGAAGATCCTTGAATTTTGGCTCTTATTGATGAAGGTGAAACAGATTGG
AAATTAATTGCTATCAATGCGAATGATCCTGAAGCCTCAAAGTTTCATGATATTGATGATGTTAAGAAG
TTCAAACCGGGTTACCTGGAAGCTACTCTTAATTGGTTTATGATTATAAGGTACCAGATGGAAAACCA
GAAAACCGAGTTTCTTTAATGGAGAATCAAAAACAAGGCTTTTCTCTTGAAGTTATTAATCCACT
CATCAATGTTGGAAGCATTGCTTATGAAGAAGTGAATGGAGGAGCTATAAATTGCACAAACGTGCAG
ATATCTGATAGCCCTTCCGTTGCACTCAAGAGGAAGCAAGATCATTAGTTGAATCGGTATCATCTTCA
CCAAATAAAGAAAGTAATGAAGAAGAGCAAGTGTGGCACTTCTTGGCAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001034191

Insert Size: 951 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).

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).

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_001034191.1](#)

RefSeq Size: 1628 bp

RefSeq ORF: 951 bp

Locus ID: 27068

Cytogenetics: 4q24

Protein Pathways: Oxidative phosphorylation

MW: 35.7 kDa

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 (5) lacks an in-frame coding segment, when compared to variant 1. The resulting isoform (5) is shorter and lacks an internal region, as compared to isoform 1.