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Product datasheet for RC221785

PPA2 (NM_176867) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPA2 (NM_176867) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPA2
Synonyms:	HSPC124; SCFAI; SCFI; SID6-306
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC221785 representing NM_176867 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGCGCGCTGCTGCGGCTGCTGCGCACGGGTGCCCCAGCCGCTGCGTGCCTGCGGTTGGGGACCAGTG CAGGGACCGGGTCGCGCCGTGCTATGGCCCTGTACCACACTGAGGAGCGCGGCCAGCCCTGCTCGCAGAA TTACCGCCTCTTCTTTAATATTGATGATGTTAAGAAGTTCAAACCGGGTTACCTGGAAGCTACTCTTAAT TGGTTTAGATTATATAAGGTACCAGATGGAAAACCAGAAAACCAGTTTGCTTTTAATGGAGAATTCAAAA ACAAGGCTTTTGCTCTTGAAGTTATTAAATCCACTCATCAATGTTGGAAAGCATTGCTTATGAAGAAGTG TAATGGAGGAGCTATAAATTGCACAAACGTGCAGATATCTGATAGCCCTTTCCGTTGCACTCAAGAGGAA GCAAGATCATTAGTTGAATCGGTATCATCTTCACCAAATAAAGAAAGTAATGAAGAAGAGCAAGTGTGGC ACTTCCTTGGCAAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC221785 representing NM_176867 Red=Cloning site Green=Tags(s) MSALLRLLRTGAPAAACLRLGTSAGTGSRRAMALYHTEERGQPCSQNYRLFFNIDDVKKFKPGYLEATLN WFRLYKVPDGKPENQFAFNGEFKNKAFALEVIKSTHQCWKALLMKKCNGGAINCTNVQISDSPFRCTQEE ARSLVESVSSSPNKESNEEEQVWHFLGK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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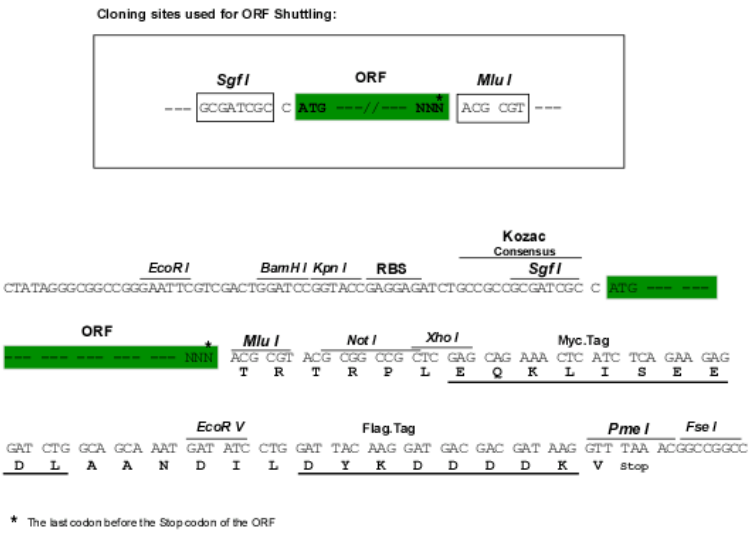
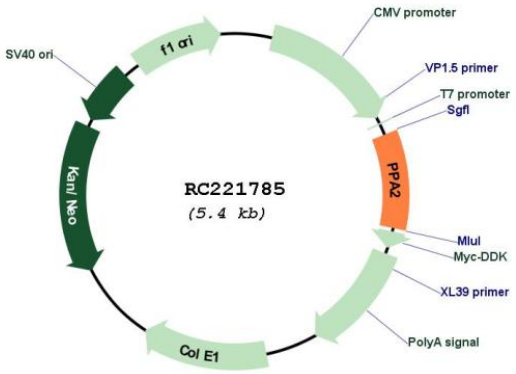
Cloning Scheme:



Plasmid Map:



ACCN:	NM_176867
ORF Size:	504 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. 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_176867.3, NP_789843.2
RefSeq Size:	1184 bp
RefSeq ORF:	507 bp
Locus ID:	27068
UniProt ID:	Q9H2U2
Cytogenetics:	4q24
Protein Pathways:	Oxidative phosphorylation
MW:	15.8 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]