

# **Product datasheet for RG221785**

## PPA2 (NM\_176867) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** PPA2 (NM\_176867) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: PPA2

Synonyms: HSPC124; SCFAI; SCFI; SID6-306

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG221785 representing NM\_176867

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACTTCCTTGGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG221785 representing NM\_176867

Red=Cloning site Green=Tags(s)

MSALLRLLRTGAPAAACLRLGTSAGTGSRRAMALYHTEERGQPCSQNYRLFFNIDDVKKFKPGYLEATLN WFRLYKVPDGKPENQFAFNGEFKNKAFALEVIKSTHQCWKALLMKKCNGGAINCTNVQISDSPFRCTQEE

 ${\sf ARSLVESVSSSPNKESNEEEQVWHFLGK}$ 

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



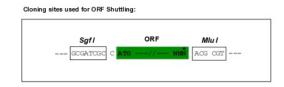
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

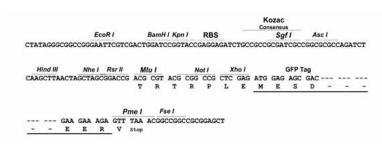
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

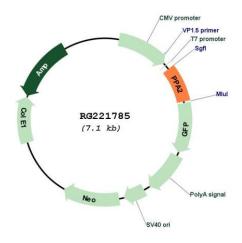


### **Cloning Scheme:**





### 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.

ORIGENE

**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: <u>NM 176867.3, NP 789843.2</u>

 RefSeq Size:
 1184 bp

 RefSeq ORF:
 507 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]