

## Product datasheet for **RG223369**

### PPA2 (NM\_176866) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPA2 (NM_176866) 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 Sequence:	>RG223369 representing NM_176866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGCGTCTGCGGCTGCTGCGCACGGGTGCCCCAGCCGCTGCGTGCCTGCGGTTGGGGACCACTG  
CAGGGACCGGTCGCGCCGTGCTATGGCCCTGTACCACACTGAGGAGCGCGGCCAGCCCTGCTCGCAGAA  
TTACCGCCTCTTCTTTAAGAATGTAAGTGGTCACTACATTTCCCCTTTCATGATATTCCTCTGAAGGTG  
AACTCTAAAGAGATTCTTCTTGTGGAGAAGTTATTCATGTGAAGATCCTTGAATTTGGCTCTTATTG  
ATGAAGGTGAAACAGATTGGAAATTAATTGCTATCAATGCGAATGATCCTGAAGCCTCAAAGTTTCATGA  
TATTGATGATGTTAAGAAGTTCAAACCGGTTACCTGGAAGCTACTCTTAATTGGTTAGATTATATAAG  
GTACCAGATGGAAAACAGAAAACAGTTTGCTTTAATGGAGAATTCAAAAACAAGCCTTTTGCTCTTG  
AAGTTATTAATCCACTCATCAATGTTGGAAAGCATTGCTTATGAAGAAGTGAATGGAGGAGCTATAAA  
TTGCACAAACGTGCAGATATCTGATAGCCCTTCCGTTGCACTCAAGAGGAAGCAAGATCATTAGTTGAA  
TCGGTATCATCTTCACCAAATAAAGAAAGTAATGAAGAAGAGCAAGTGTGGCACTTCCTTGGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223369 representing NM\_176866  
 Red=Cloning site Green=Tags(s)

MSALLRLLRTGAPAAACLRLGTSAGTGSRRAMALYHTEERGQPCSQNYRLLFFKNVTGHIYISPFHDIPLKV  
 NSKEILSCGEVIHVKILGILALIDEGETDWKLIAINANDPEASKFHDIDDVKKFKPGYLEATLNWFRLYK  
 VPDGKPENQFAFNGEFKNKAFALEVIKSTHQCKWALLMKKCNCGGAINCTNVQISDSPFRCTQEEARSLVE  
 SVSSSPNKESNEEEQVWHFLGK

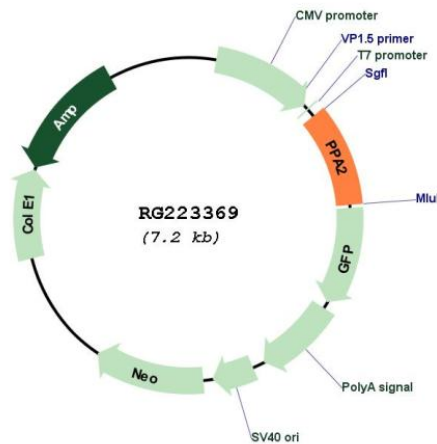
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_176866

ORF Size: 696 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_176866.2</a> , <a href="#">NP_789842.2</a>
<b>RefSeq Size:</b>	1376 bp
<b>RefSeq ORF:</b>	699 bp
<b>Locus ID:</b>	27068
<b>UniProt ID:</b>	<a href="#">Q9H2U2</a>
<b>Cytogenetics:</b>	4q24
<b>Protein Pathways:</b>	Oxidative phosphorylation
<b>Gene Summary:</b>	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]