

## Product datasheet for RC232516

### PP1C gamma (PPP1CC) (NM\_001244974) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PP1C gamma (PPP1CC) (NM_001244974) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP1CC
Synonyms:	PP-1G; PP1C; PPP1G
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232516 representing NM_001244974 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGATTTAGATAAACTCAACATCGACAGCATTATCCAACGGCTGCTGGAAGTGAGAGGGTCCAAGC  
CTGGTAAGAATGTCCAGCTTCAGGAGAATGAAATCAGAGGACTGTGCTTAAAGTCTCGTAAATCTTTCT  
CAGTCAGCCTATCCTACTAGAATTGAAGCACCCTCAAATATGTGGTGACATCCATGGACAATACTAT  
GATTTGCTGCGACTTTTTGAGTACGGTGGTTCCACCAGAAAGCAACTACCTGTTTCTGGGGACTATG  
TGGACAGGGGAAAGCAGTCATTGGAGACGATCTGCCTTCTACTGGCTACAAAATAAAATATCCTGAGAA  
TTTTTTCTTCTCAGAGGGAACCATGAATGTGCCAGCATCAACAGAATTTATGGATTTTATGATGAATGT  
AAAAGAAGATACAACATTAAGTATGAAAACTTTCACAGACTGTTTTAACTGTTTACCGATAGCAGCCA  
TCGTGGATGAGAAGATATTCTGCTGTCTGGAGGTTTATCACCAGATCTCAATCTATGGAGCAGATTTCG  
GCGAATTATGCGACCAACTGATGTACCAGATCAAGGTCTCTTTGTGATCTTTTGGTCTGACCCCGAT  
AAAGATGTCTTAGGCTGGGTGAAAATGACAGAGGAGTGCCTTCACATTTGGTGCAGAAGTGGTTGCAA  
AATTTCTCCATAAGCATGATTTGGATCTTATATGTAGAGCCCATCAGGTGGTTGAAGATGGATGAAAT  
TTTTGCAAAGAGGAGTGGTCACTCTGTTTTCTGCGCCCAATTATTGCGGAGAGTTTGACAATGCAGGT  
GCCATGATGAGTGTGGATGAAACACTAATGTGTTCTTTTCAGATTTTAAAGCCTGCAGAGAAAAAGAGC  
CAAATGCCACGAGACCTGTAACGCCTCCAAGGTTGCATCAGGCCTGAACCCGTCCATTCAGAAAGCTTC  
AAATTATAGAAACAATACTGTTCTATACGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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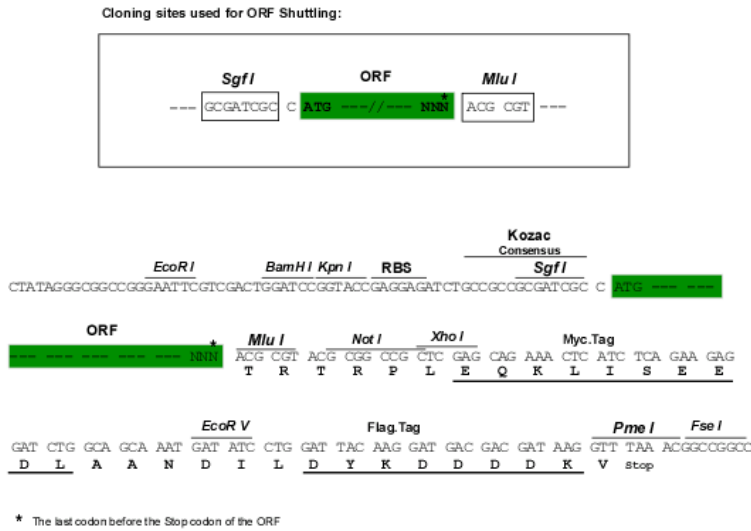
Protein Sequence: >RC232516 representing NM\_001244974  
 Red=Cloning site Green=Tags(s)

MADLDKLNIDSIIQRLLLEVGRGSKPGKNVQLQENEIRGLCLKSREIFLSQPILLEEAPLKICGDIHGQYY  
 DLLRLFEYGGFPPESNYLFLDYVDRGKQSLLETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDEC  
 KRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRIRMRPTDVPDQGLLCDLLWSDPD  
 KDVLGWGENDRGVSFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEFFAKRQLVTLF SAPNYCGEFDNAG  
 AMMSVDETLMCSFQILKPAEKKKPNATRPVTPPRVASGLNPSIQKASNYRNNNTVLYE

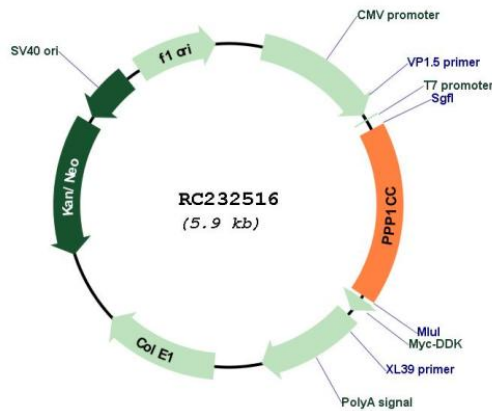
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001244974

ORF Size: 1011 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_001244974.2</a>
<b>RefSeq Size:</b>	1626 bp
<b>RefSeq ORF:</b>	1014 bp
<b>Locus ID:</b>	5501
<b>UniProt ID:</b>	<a href="#">P36873</a>
<b>Cytogenetics:</b>	12q24.11
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation of actin cytoskeleton, Vascular smooth muscle contraction
<b>MW:</b>	39 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the protein phosphatase family, PP1 subfamily. PP1 is an ubiquitous serine/threonine phosphatase that regulates many cellular processes, including cell division. It is expressed in mammalian cells as three closely related isoforms, alpha, beta/delta and gamma, which have distinct localization patterns. This gene encodes the gamma isozyme. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]