

Product datasheet for **RG204158**

PP1C gamma (PPP1CC) (NM_002710) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PP1C gamma (PPP1CC) (NM_002710) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PP1C gamma
Synonyms:	PP-1G; PP1C; PPP1G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204158 representing NM_002710 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATTTAGATAAACTCAACATCGACAGCATTATCCAACGGCTGCTGGAAGTGAGAGGGTCCAAGC
CTGGTAAGAATGTCCAGCTTCAGGAGAATGAAATCAGAGGACTGTGCTTAAAGTCTCGTAAATCTTTCT
CAGTCAGCCTATCCTACTAGAATTGAAGCACCCTCAAATATGTGGTGACATCCATGGACAATACTAT
GATTTGCTGCGACTTTTTGAGTACGGTGGTTCCACCAGAAAGCAACTACCTGTTTCTGGGGACTATG
TGGACAGGGGAAAGCAGTCATTGGAGACGATCTGCCTTACTGGCCTACAAAATAAAATATCCTGAGAA
TTTTTTCTTCTCAGAGGAACCATGAATGTGCCAGCATCAACAGAATTTATGGATTTTATGATGAATGT
AAAAGAAGATACAACATTAACATATGAAAACTTTCACAGACTGTTTTAACTGTTTACCGATAGCAGCCA
TCGTGGATGAGAAGATATTCTGCTGTACATGGAGGTTTATCACCAGATCTCAATCTATGGAGCAGATTCCG
GCGAATTATGCGACCAACTGATGTACCAGATCAAGGTCTCTTTGTGATCTTTTGTGGTCTGACCCCGAT
AAAGATGTCTTAGGCTGGGGTGAAAATGACAGAGGAGTGTCTTACATTTGGTGCAAGTGGTTGCAA
AATTTCTCCATAAGCATGATTTGGATCTTATATGTAGAGCCCATCAGGTGGTTGAAGATGGATATGAATT
TTTTGCAAAGAGGCAGTTGGTCACTCTGTTTTCTGCGCCCAATTATTGCGGAGAGTTTGACAATGCAGGT
GCCATGATGAGTGTGGATGAAACACTAATGTGTTCTTTTCAGATTTTAAAGCCTGCAGAGAAAAAGAAGC
CAATGCCACGAGACCTGTAACGCCTCCAAGGGTATGATCACAAGCAAGCAAAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204158 representing NM_002710
 Red=Cloning site Green=Tags(s)

MADLDKLNIDSIIQRLLLEVGRGSKPGKNVQLQENEIRGLCLKSREIFLSQPILLELEAPLKICGDIHGQYY
 DLLRLFEYGGFPPESNYLFLDYVDRGKQSLLETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDEC
 KRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMQIRRMPTDVPDQGLLCDLLWSDPD
 KDVLGWGENDRGVSFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEFFAKRQLVTLF SAPNYCGEFDNAG
 AMMSVDETLMCSFQILKPAEKKKPNATRPVTPPRGMITKQAKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002710

ORF Size: 969 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_002710.4](#)

RefSeq Size: 2263 bp

RefSeq ORF: 972 bp

Locus ID: 5501

UniProt ID: [P36873](#)

Cytogenetics: 12q24.11

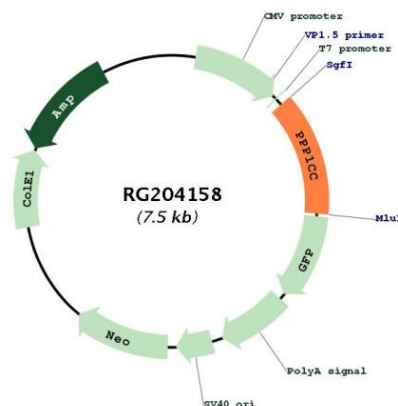
Domains: Metallophos, PP2Ac

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation of actin cytoskeleton, Vascular smooth muscle contraction

Gene Summary: 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]

Product images:



Circular map for RG204158