

## Product datasheet for **MR204669**

### PPP1cc (NM\_013636) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1cc (NM_013636) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppp1cc
Synonyms:	dis2m1; PP-1G; PP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204669 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGCGGATATCGACAACTCAACATCGACAGCATCATCCAACGGCTGCTGGAAGTGAGAGGGTCCAAGC  
 CAGGCAAGAATGTCCAGCTCCAGGAGAACGAGATCCGAGGACTCTGCCTGAAGTCTCGGGAGATCTTCCT  
 CAGTCAGCCTATCCTTTTGAACCTGAAGCACCCTCAAGATATGTGGTGACATCCACGGGCAGTACTAT  
 GATTTGCTCCGTCTGTTGAATACGGTGGCTTTCCTCCAGAGAGCAACTATTTGTTTCTCGGGGACTATG  
 TGGACAGGGGCAAGCAGTCCCTGGAGACAATCTGCCTCTTGCTGGCCTACAAAATCAAGTATCCGGAGAA  
 CTCTTTCTTCTCAGAGGAACACGAGTGCGCCAGCATCAATAGGATCTACGGATTTTATGATGAGTGT  
 AAAAGAAGATACAACATTAAGCTGTGGAACGTTACAGACTGTTTAACTGCTTGCCGATAGCAGCCA  
 TCGTGGACGAGAAGATATTCTGCTGTCTGAGGTTTATCACCAGATCTCAATCTATGGAGCAGATTTCG  
 GCGAATTATGAGACCAACTGATGTACCAGATCAAGGTCTTCTTTGTGATCTTTTGGTCTGACCCCGAT  
 AAAGATGTCTTAGGCTGGGTGAAAATGACAGAGGAGTGTCTTCACATTTGGTGCAAGTGGTTGCAA  
 AATTTCTCCATAAGCATGATTTGGATCTTATATGTAGAGCCCATCAGGTGGTTGAAGATGGCTATGAGTT  
 TTTTGAAAGAGGCAGTTAGTCACTCTGTTTCTGCACCAACTACTGTGGCGAGTTTGACAATGCAGGC  
 GCCATGATGAGTGTGGATGAGACCCTCATGTGTTCTTCCAGATTTTAAAGCCTGCAGAGAAAAAGAAGC  
 CCAACGCCACGAGACCTGTCACACCACACGGGGTATGATCACAAGCAAGCAAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >MR204669 protein sequence  
 Red=Cloning site Green=Tags(s)

MADIDKLNIDSIIQRLLEVGRSGKPGKNVQLQENEIRGLCLKSREIFLSQPILLELEAPLKICGDIHGQYY  
 DLLRLFEYGGFPPESNYLFGLDYVDRGKQSLLETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDEC  
 KRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMQIRRMPTDVPDQGLLCDLLWSDPD  
 KDVLGWGENDRGVSFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEFFAKRQLVTLF SAPNYCGEFDNAG  
 AMMSVDETLMCSFQILKPAEKKKPNATRPVTPPRGMITKQAKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013636

**ORF Size:** 969 bp

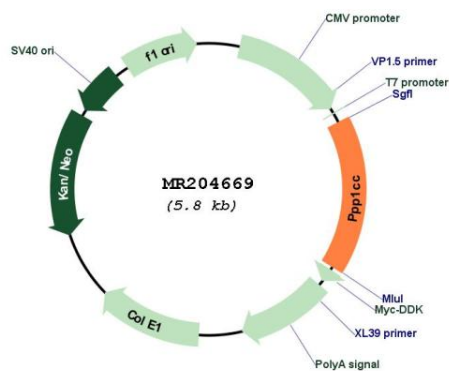
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_013636.4</u>
<b>RefSeq Size:</b>	2379 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	19047
<b>UniProt ID:</b>	<u>P63087</u>
<b>Cytogenetics:</b>	5 F
<b>MW:</b>	37 kDa
<b>Gene Summary:</b>	Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Dephosphorylates RPS6KB1. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR204669