

## Product datasheet for **MG204795**

### PPP1cb (NM\_172707) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ppp1cb (NM\_172707) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ppp1cb  
**Synonyms:** 1200010B19  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204795 representing NM\_172707  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGACGGGGAGCTGAACGTGGACAGCCTCATCACCCGCTGCTGGAGGTACGAGGATGTCGTCCAG  
 GAAAGATTGTACAAATGACTGAAGCAGAAGTCCGAGGGTTGTGTATCAAGTCTCGTGAAATCTTTCTCAG  
 CCAGCCTATTCTTTGGAATTGGAAGCACCCTGAAGATTTGGGAGACATTCATGGACAATATACAGAC  
 TACTAAGATTATTTGAATATGGAGTTTTCCACCAGAAGCCAATATCTTTCTTAGGAGATTATGTGG  
 ACAGAGGAAAGCAGTCTTTGAAAACCATCTGTTTGCTATTGGCTTACAAAATCAAATACCCGGAGAACTT  
 CTTTCTTCTAAGAGGAAACCATGAGTGTCTAGCATCAATCGCATTTATGGATTCTACGATGAGTGTAAA  
 CGAAGATTTAATATTAATTTGTGGAAGACATTCAGTATTGTTTTAACTGTCTGCCTATAGCTGCTATTG  
 TTGATGAGAAAATCTTCTGTTGTCATGGAGGACTGTCACCAGACCTACAATCTATGGAACAGATTCGGAG  
 AATTATGAGACCCACTGACGTACCTGATACAGGTTTGCTTTGTGACTTACTGTGGTCCGACCCAGATAAG  
 GATGTGCAAGGCTGGGGAGAAAATGACCGTGGTGTCTTTTACTTTTGGAGCTGATGTAGTCAGTAAAT  
 TTCTGAATCGTCATGATTTAGACTTGATTTGTCGAGCTCATCAGGTGGTGAAGACGGATATGAATTTT  
 TGCTAAACGACAGTTGGTAACCTTATTTCTGCCCAAATTAAGTGTGGCGAGTTTGACAATGCTGGTGGT  
 ATGATGAGTGTGGATGAGACTTTGATGTGTTTATTCCAGATATTGAAACCATCTGAAAAGAAAGCTAAGT  
 ACCAGTATGGTGGGCTGAATTCGGACGCTCTGCACTCCGCCTCGAACGCTAATCCACCGAAGAAAAG  
 G

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204795 representing NM\_172707  
Red=Cloning site Green=Tags(s)

MADGELNVDSLITRLLLEVRGCRPGKIVQMTEAEVRGLCIKSREIFLSQPILLELEAPLKICGDIHGQYTD  
 LLRLFEYGGFPPEANYLFLGDYVDRGKQSLETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDECK  
 RRFNIKLWKTFTDFCNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRIRMRPTDVPDGLLCDLLWSDPK  
 DVQGWGENDRGVSFTFGADVVSFKFLNRHDLDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGG  
 MMSVDETLMCSFQILKPSEKKAKYQYGLNSGRPVTPPRTANPPKKR

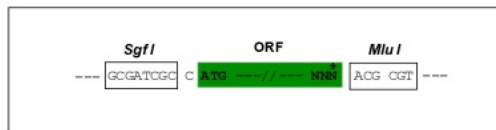
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2563\\_b03.zip](https://cdn.origene.com/chromatograms/ja2563_b03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_172707

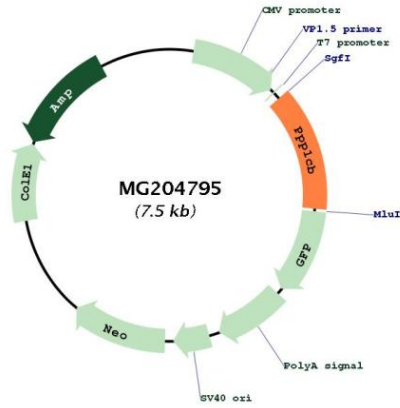
**ORF Size:** 981 bp

**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](#)

|                               |  |
|-------------------------------|--|
| <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_172707.3</a>  |
| <b>RefSeq Size:</b>           | 4024 bp  |
| <b>RefSeq ORF:</b>            | 984 bp   |
| <b>Locus ID:</b>              | 19046  |
| <b>UniProt ID:</b>            | <a href="#">P62141</a>   |
| <b>Cytogenetics:</b>          | 5 B1   |
| <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 (PP1) is essential for cell division, it participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. 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 MG204795