

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)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGACGGGAGCTGAACGTGGACAGCCTCATCACCCGCCTGCTGGAGGTACGAGGATGTCGTCCAG
 GAAAGATTGTACAAATGACTGAAGCAGAAGTCCGAGGGTTGTGTATCAAGTCTCGTGAAATCTTTCTCAG
 CCAGCCTATTCTTTGGAATTGGAAGCACCCTGAAGATTTGTGGAGACATTCATGGACAATATACAGAC
 TTAATAAGATTATTTGAATATGGAGTTTTCCACCAGAAGCCAATATCTTTCTTAGGAGATTATGTGG
 ACAGAGGAAAGCAGTCTTTGAAACCATCTGTTTGCTATTGGCTTACAAAATCAAATACCCGGAGAACTT
 CTTTCTTCTAAGAGGAAACCATGAGTGTGCTAGCATCAATCGCATTTATGGATTCTACGATGAGTGTA
 CGAAGATTTAATATTAATTTGTGGAAGACATTCATGATTGTTTTAACTGTCTGCCTATAGCTGCTATTG
 TTGATGAGAAAATCTTCTGTTGTCATGGAGGACTGTCACCAGACCTACAATCTATGGAACAGATTCGGAG
 AATTATGAGACCCACTGACGTACCTGATACAGGTTTGCTTTGTGACTTACTGTGGTCCGACCCAGATAAG
 GATGTGCAAGGCTGGGAGAAAATGACCGTGGTGTCTTTACTTTTGGAGCTGATGTAGTCAGTAAAT
 TTCTGAATCGTCATGATTTAGACTTGATTTGTCGAGCTCATCAGGTGGTGAAGACGGATATGAATTTT
 TGCTAAACGACAGTTGGTAACCTTATTTCTGCCCAAATTAAGTGGCGAGTTTGACAATGCTGGTGGT
 ATGATGAGTGTGGATGAGACTTTGATGTGTTTATTCCAGATATTGAAACCATCTGAAAGAAAGCTAAGT
 ACCAGTATGGTGGGCTGAATTCGGACGTCCTGTCACTCCGCCTCGAACAGCTAATCCACCGAAGAAAAG
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG204795 representing NM_172707
 Red=Cloning site Green=Tags(s)

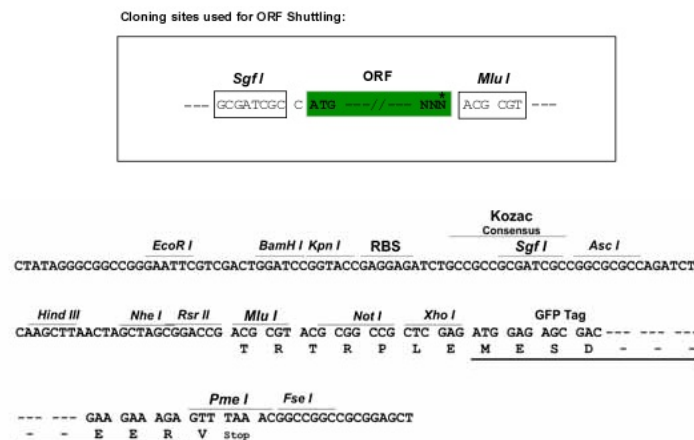
MADGELNVDSLITRLLEVRGCRPGKIVQMTEAEVRGLCIKSREIFLSQPILLELEAPLKICGDIHGQYTD
 LLRLFEYGGFPPEANYLFLGDYVDRGKQSLLETICLLAYKIKYPENFFLLRGNHECASINRIYGFYDECK
 RRFNIKLVKTFDTFCNCLPIAAIVDEKIFCCHGGLSPDLQSMQIRIRMRPTDVPDGLLCDLLWSDPK
 DVQGWGENDRGVSFTFGADVVSFKNRDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGG
 MMSVDETLMSFQILKPESEKAKYQYGLNSGRPVTPRTANPPKKR

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2563_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172707

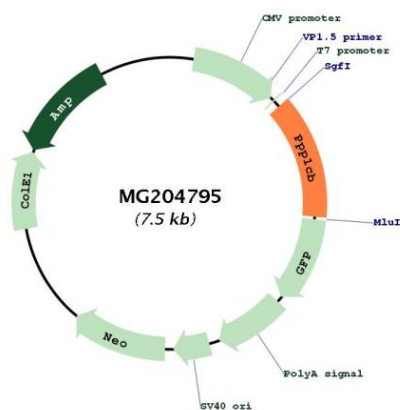
ORF Size: 981 bp

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 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.
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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_172707.3
RefSeq Size:	4024 bp
RefSeq ORF:	984 bp
Locus ID:	19046
UniProt ID:	P62141
Cytogenetics:	5 B1
Gene Summary:	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