

Product datasheet for **MC202635**

PPP1cb (NM_172707) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1cb (NM_172707) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP1cb
Synonyms:	1200010B19
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC046832 sequence for NM_172707
 CGTGACTCGTAGGTGAGAACGCCGAGCCGCCGCCGCCGAGAAAGCCCTGTTAACGCTTTAGGGAGGAG
 AGTCTGGTGCCGACAAGATGGCGGACGGGGAGCTGAACGTGGACAGCCTCATCACCCGCTGCTGGAGGT
 ACGAGGATGTCGTCAGGAAAGATTGTACAAATGACTGAAGCAGAAGTCCGAGGGTTGTGTATCAAGTCT
 CGTGAAATCTTTCTCAGCCAGCCTATCTTTTGGAAATGGAAGCACCCTGAAGATTTGTGGAGACATTC
 ATGGACAATATACAGACTTACTAAGATTATTTGAATATGGAGGTTTTCCACCAGAAGCCAACATCTTTT
 CTTAGGAGATTATGTGGACAGAGAAAGCAGCTTTTGGAAACCTCTGTTTGTCTATTGGCTTACAAAATC
 AAATACCCGAGAACTTCTTTCTTAAGAGGAAACCATGAGTGTGCTAGCATCAATCGCATTTATGGAT
 TCTACGATGAGTGTAAACGAAGATTTAATATTAATTGTGGAAGACATCACTGATTGTTTTAACTGTCT
 GCCTATAGCTGCTATTGTTGATGAGAAAATCTTCTGTTGTGATGGAGGACTGTCACCAGACCTACAATCT
 ATGGAACAGATTCGGAGAATTATGAGACCCACTGACGTACCTGATACAGGTTTGTCTTTGACTTACTGT
 GGTCCGACCCAGATAAGGATGTGCAAGGCTGGGAGAAAATGACCGTGGTGTCTTTTACTTTTGGAGC
 TGATGTAGTCAGTAAATTTCTGAATCGTCATGATTTAGACTTGATTTGTCGAGCTCATCAGGTGGTGGAA
 GACGGATATGAATTTTTGCTAAACGACAGTTGGTAACCTTATTTTCTGCCCAAATTAAGTGGCGAGT
 TTGACAATGCTGGTGGTATGATGAGTGTGGATGAGACTTTGATGTGTTTCCAGATATTGAAACCATC
 TGAAGAAAGCTAAGTACCAGTATGGTGGGCTGAATTCGGACGTCCTGCACTCCGCCTCGAACAGCT
 AATCCACCGAAGAAAAGGTGAAGACAGGAATTCTAGAAAGAGAAAACCATCAGATTTGTTAAGGACATACT
 TCATAATATAAGTGTGCACTGTAAAACCATCCAGCCATTGACACCCCTTTATGATGTCACACCTTTAA
 CTTAAGGAGACGGTAAAGGATCTTAAATTTTTTCTAATAGAAAGATGTGCTACACTGTATTGTAATAAG
 TATACTCTGTTATAATATTCAACAAAATTAATCCAAATTCAAAAGTATCCATTAAGGTTCTATCTTCTC
 ATATCACAGTTTTTAAAGTTGAAAAGCATCCCAGTTAACTAGCCCTGTTAGTGACCCAGATGAAAGCAT
 GAAGATCCATCTGTGTAATGTGGTTTTAGTGGTCTTGGTTGTTTCATTATTTGAGCTGTTTTGTTTT
 GTTTGTTTTTCTAGAATAATGGCATCTACTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
 GGAAGAGCTTTAAAGACATTACCAACTATTCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
 TACTAAGAAAACCTACCCTCATTACAGTAAAAAGGAACCTTAGAGGTCGATAGGTTTTAAAAATATACA
 AACTATCTGATCCATTGATTTTAAATCAAACAGTTTACTGGGCAAACTTGCAGCTGATAATGAGTATTT
 CCTTTTTACAAAATTGCCACTGATTTGGATTTGTGCACTCTAATCTTAAATTTATTGATGCTCTATTGTG
 CAGTAGCATTTTCAATTAAGATAAGGCTCATATAGTAATATCCAAAAGTGGTAAATGTGATTATGTGG
 TACTTTGGCTTTGGGTTCTAATTCGCACGAAACACCTTTTGGCATGCTTAACTTTCTGGTATTACCCTCA
 CCTGCATTGGTTTTGTTTTTGGGGTTTTGTTGTTGTTGTTTTAGATTACAGAACATGAGAAATCC
 TTTTGGACAAGCCTTGGATAGCTGGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
 CGCTGGTCAGTGGGACATTTGTCAGCTCTGAATATTGGGTGCTTCAATAAATGCCATGTGAATGTTG
 TTTTGACTGTAAGGCTATGCACTAAAGATTTTACTCTGCGTTTTTATAATCAAAGGTCATGATGTGTA
 TAGACATGCTTTGTAGTGAAGTATAGTAGCAATAATTTCTGTATGTGATCAAGAGTTTATTGCATTTT
 CTTTCCCTGTTCTCTTTTTTTTTTTTTAAGGGTAGCATTAAACAATGTCAAGGAGTAGCAAAGTCAACA
 AAGATTTTAGAAGGAGGAGGAACAAAGAGCATACACAGACTTATGATTCTTTGGATGTGACACTTATTGG
 ATGTGATTCTAAAGTCTTTTATTGAATATTGTCAAATTCGTACGCTTATAGGATGGACATAATGTTTAT
 ATAATGCCCTTCTTATGTGTTACCATAGATGTGTGAAACCTTATAGCGTCCTTGAAGTGTAAATTTGAG
 AACTCTGTTAACATTTTATGGATTGACACATTATTAATCTGCAAGTAACATTTGATTTTTCAGCACAGTGC
 AAAAGTTCTTTAAATGCATATGCTTTTTTTTTTCTAATTTCCATTTTGTAAAGCACATTTTAAATGTA
 GTTTTCTCATTTAGTAAAGTTGTCTAATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_172707
Insert Size: 984 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](#)

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: [BC046832](#), [AAH46832](#)

RefSeq Size: 2785 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]