

## Product datasheet for **MG204384**

### PPP2CA (NM\_019411) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2CA (NM_019411) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2CA
Synonyms:	PP2A; R75353
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204384 representing NM_019411 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGAGAAGTTGTTACCAAGGAGCTGGACCAGTGGATCGAGCAGCTGAACGAGTGCAAGCAGCTCT  
CCGAGTCCAGGTCAAGAGCCTCTGCGAGAAGGCTAAAGAAATCCTGACAAAAGAATCCAACGTTCAAGA  
GGTTCGATGTCCAGTCACTGTGTGGAGATGTACATGGCAATTCATGATCTCATGGAAGTCTTTAGA  
ATTGGTGGTAAATCACCAGATACAAATTACCTGTTTATGGGAGACTATGTGGACAGAGGATATTACTCTG  
TTGAAACAGTTACTGCTTGTAGCTCTTAAGGTTCTGTTACCGAGAGCGCATACCATACTCCGAGGGAA  
TCACGAGAGCAGACAGATCACACAGTTTATGGGTTCTACGACGAGTGTAAAGGAAATACGAAATGCA  
AATGTTTGGAAATACTTCACAGACCTTTTTGACTATCTTCTCTCACTGCCTTGGTGGATGGGCAGATCT  
TCTGTCTACACGGTGGTCTGTCCACCATCATAGACACACTGGATCACATCCGAGCACTCGATCGCCTACA  
GGAAGTTCCTCATGAGGGTCCAATGTGTGACTTGTGTGGTCCAGATGACCGTGGTGGTGGGGG  
ATATCTCTCGGGGAGCTGGTTATACCTTTGGCCAAGATTTCTGAGACATTTAATCATGCCAATGGCC  
TCACGTTGGTGTCCAGAGCTCACCAGCTGGTGTGGAGGGATATAACTGGTGCCATGACCGGAACGTAGT  
AACAAATTTTCAGTGCTCCAACTATTGCTATCGTTGTGGTAACCAAGCTGCAATCATGGAAGTGGACGAC  
ACTCTTAAGTATCTTTTTCAGTGTGGACCCAGCACCTCGTAGAGGCGAGCCACATGTCACTCGTCGTA  
CCCCAGACTACTTCTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204384 representing NM\_019411  
 Red=Cloning site Green=Tags(s)

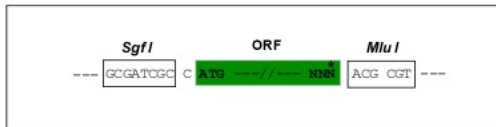
MDEKLFTEKELDQWIEQLNECKQLSESQVKSLCEKAKEILTKESNVQEVRCPVTVCGDVHGGQFHDLMELFR  
 IGGKSPDTNYLFMGDYVDRGYYSVETVLLVALKVRYRERITILRGNHESRQITQVYGFYDECLRKYGNA  
 NVWKYFTDLFDYLPALTALVDGQIFCLHGGLSIDTLDIRALDRLQVEPHEGPMCDLLWSDPDRGGWG  
 ISPRGAGYTFGQDISETFNHANGLLVSRHQQLVMEGYNWCHDRNVVTFIF SAPNYCYRCGNQAAIMELDD  
 TLKYSFLQFDPAPRRRGEHVTRTRTPDYFL

TRTRPLE - GFP Tag - V

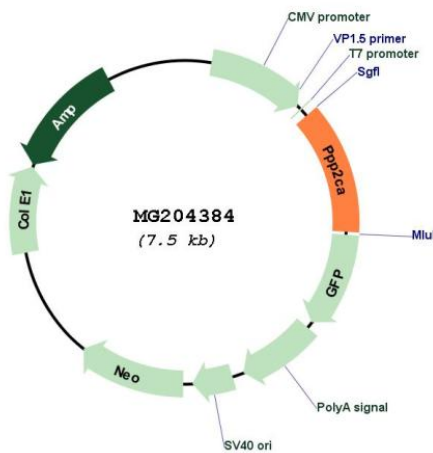
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_019411

ORF Size: 927 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.

**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\\_019411.4](#), [NP\\_062284.1](#)

**RefSeq Size:** 1930 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 19052

**UniProt ID:** [P63330](#)

**Cytogenetics:** 11 B1.3

**Gene Summary:** PP2A is the major phosphatase for microtubule-associated proteins (MAPs). PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogen-stimulated S6 kinase, and MAP-2 kinase. Cooperates with SGO2 to protect centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I. Activates RAF1 by dephosphorylating it at 'Ser-259' (By similarity).[UniProtKB/Swiss-Prot Function]