

## Product datasheet for **RC217361**

### PPP2R5C (NM\_178587) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5C (NM_178587) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R5C
Synonyms:	B56G; B56gamma; PR61G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC217361 representing NM\_178587  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGACATGTAATAAAGCGGGCAGCAGGATGGTGGTGGATGCGGCCAACTCCAATGGGCCTTTCCAGC  
 CCGTGGTCTTCTCCATATTCGAGATGTTCTCTGCTGATCAAGAGAAGCTTTTATCCAGAAGTTACG  
 TCAGTGTGCGTCTCTTTGACTTTGTTTCTGATCCACTAAGTGACCTAAAGTGGGAAGGAAGTAAACGA  
 GCTGCTTTAAGTGAATGGTAGAATATACCCATAATCGGAATGTGATCACAGAGCCTATTTACCCAG  
 AAGTAGTCCATATGTTTGCAGTTAACATGTTTGAACATTACCACCTTCTCCAATCCTACGGGAGCGGA  
 ATTTGACCCGGAGGAAGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTACAGCTTGTATGAATTT  
 TTCTTAAGATTTTAGAGTCTCCAGATTTCCAACCTAATATAGCGAAGAAATATATTGATCAGAAGTTG  
 TATTGCAGCTTTAGAGCTTTTACAGTGAAGATCCTCGGGAGAGAGATTTTCTAAAACACCCTTCA  
 CAGAATCTATGGGAAATTCCTAGGCTTGAGAGCTTACATCAGAAAACAGATAAAATAATATATTTTATAGG  
 TTTATTTATGAAACAGAGCATCATAATGGCATAGCAGAGTTACTGGAAATATTGGGAAGTATAATTAATG  
 GATTTGCCTTACCACTAAAAGAAGACACAAGATTTTCTTATTGAAGGTGTTACTACCTTTGCACAAAGT  
 GAAATCTCTGAGTGTCTACCATCCCGAGCTGGCATACTGTGTAGTGCAGTTTTAGAAAAGGACAGCACC  
 CTCACGGAACCAAGTGGTATGGCACTTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAGTAAATGT  
 TCTTAAACGAATTAGAAGAGATTTAGATGTCAATGAACCATCAGAAATTTGTGAAGATCATGGAACCCCT  
 CTTCCGGCAGTTGGCCAAATGTGTCTCCAGCCCACTTCCAGGTGGCAGAGCGAGCTCTCTATTACTGG  
 AATAATGAATACATCATGAGTTTAAATCAGTGACAACGCAGCGAAGATTCTGCCATCATGTTTCTTCTCT  
 TGTACCGCAACTCAAAGACCCATTGGAACAAGACAATACATGGCTTGATATACAACGCCCTGAAGCTCTT  
 CATGGAGATGAACCAAAAGCTATTTGATGACTGTACACAACAGTTCAAAGCAGAGAAAACAAAAGAGAAG  
 CTA AAAATGAAAGAACGGGAAGAAGCATGGGTTAAAATAGAAAATCTAGCCAAAGCCAATCCCCAGGTAC  
 TAAAAAGAGAATAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC217361 representing NM\_178587  
 Red=Cloning site Green=Tags(s)

MLTCNKAGSRMVDAANSNGPFQPVVLLHIRDVPPADQEKLFIQKLRQCCVLFDFVSDPLSDLKWKEVKR  
 AALSEMVEYITHNRNVIETPIYPEVVHMFVNMFRLLPSSNPTGAEFDPEDPTLEAAWPHLQLVYEF  
 FLRFLESPDFQPNIAKKYIDQKFLVQLLELFDSEDPREDFLKTTLHRIYGKFLGLRAYIRKQINNIFYR  
 FIYETEHNGIAELLEILGSIINGFALPLKEEHKIFLLKVLPLHKVKSLSVYHPQLAYCVVQFLEKDDST  
 LTEPVVMALLKYWPKTHSPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYW  
 NNEYIMSLISDNAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAELKKEK  
 LKMKEREEAWVKIENLAKANPQVLKKRIT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_178587

ORF Size: 1347 bp

OTI Disclaimer: 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\\_178587.3](#)

RefSeq Size: 1586 bp

RefSeq ORF: 1350 bp

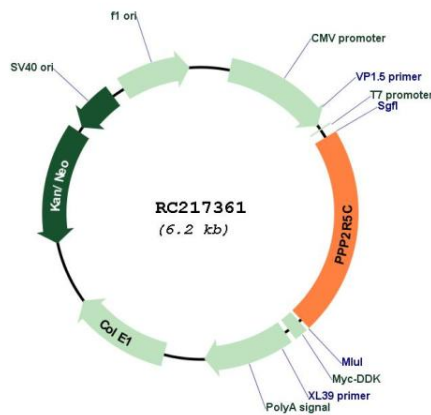
Locus ID: 5527

UniProt ID: [Q13362](#)

**Cytogenetics:** 14q32.31  
**Protein Families:** Druggable Genome, Phosphatase  
**Protein Pathways:** Oocyte meiosis, Wnt signaling pathway  
**MW:** 52.4 kDa

**Gene Summary:** The product of this gene belongs to the phosphatase 2A regulatory subunit B family. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a gamma isoform of the regulatory subunit B56 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC217361