

## Product datasheet for **MC217156**

### PPP2R5C (NM\_001135001) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5C (NM_001135001) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R5C
Synonyms:	2610043M05Rik; 2700063L20Rik; AI060890; AW545884; C85228; D12Bwg0916e; mKIAA0044
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC217156 representing NM\_001135001  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGAATAAAAACAAGAAGGAGAAGAACCACCAAAACCGGTGAAAAGTGAAAAGGTCCAAAAGAAG  
 GACAAGATACAGCAGAAACAGAGATAGCCAGCAGGAAAAATAGCCTCACGTTGTCCAGTCTTCGACATC  
 TACTAAAATAAAAAGTACCAATCCCTCAACCCGTCGTCGTCCTGTGAAGAAAGACAAACGGCAGAATTCT  
 TCACGGTTAATGCCAGCAATAATAGAGAGCTACAAAACTCCCATCTTTAAAAGATGTTCTCCTGCGG  
 ATCAAGAGAAGCTTTTTATCCAGAAGCTACGCCAGTGTGTGTCCTTTGACTTTGTCTCTGACCCACT  
 GAGTGACCTGAAGTGAAGGAAGTAAAGCGCGCTGCGCTGAGCGAGATGGTGGAGTATATCACCCACAAC  
 CGGAACGTGATCACGGAGCCATTTACCCCGAGGCCGTCACATGTTTGAGTTAACATGTTCCGAACCT  
 TGCCACCTTCTCCAATCCACGGGAGCAGAATTCGACCCAGAAGAGGATGAACCAACGTTAGAAGCAGC  
 CTGGCCTCATCTGCAGCTTGTTTATGAATTTTTCTTAAGATTTTTAGAGTCTCCAGATTTCCAACCCAAT  
 ATAGCAAAGAAATATATTGATCAGAAGTTGTATTGCAGCTTCTAGAGCTGTTTGACAGCGAGGATCCTC  
 GGGAGAGAGATTTTCTAAAACACCCTGCACAGAATCTATGGGAAGTCTTAGGCCTGCGTGCTTACAT  
 CAGGAAACAGATCAATAATATATTTTATAGGTTTATCTATGAGACAGAGCATCACAATGGCATAGCGGAG  
 TTAAGTGGAGATCTGGGAAGTATAATTAATGGATTTGCCTTACCCTGAAGGAGGAACACAAGATTTTCC  
 TGCTGAAGGTGTTGCTGCCCTTGACAAAAGTGAAGTCCCTGAGTGTCTACCATCCCAGCTGGCGTACTG  
 TGTCGTGCAGTTTTAGAGAAGGACAGCACCCCTCACTGAACCAAGTGGTAAATGGCACTTCTCAAATACTGG  
 CCAAAGACTCACAGTCCAAAAGAAGTAAATGTTCTTAAATGAATTAAGAAGAAATTTAGATGTAATTGAAC  
 CATCAGAGTTTGTGAAGATCATGGAGCCTTTTTCCGACAGTTAGCCAAATGTGTTCCAGCCCTCACTT  
 CCAGGTGGCCGAGCGGGCGCTCTATTACTGGAACAACGAGTACATCATGAGTTTAAATCAGTGACAACGCA  
 GCGAAGATTCTGCCATCATGTTTCCGTCCTTATACCGCAACTCAAGACCCACTGGAACAGACAATAC  
 ACGGCTTGATATACAACGCCCTGAAACTCTTATGGAGATGAACCAAAAACCTCTTCGATGACTGCACTCA  
 GCAGTTCAAAGCAGAGAAACTCAAAGAGAAGCTAAAAATGAAAGAGCGAGAAGAAGCATGGGTTAAATA  
 GAAAATCTAGCCAAGCGAATCCCAGGTACTAAAAAGAGAGTAACTCGGGAGTGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001135001

**Insert Size:** 1530 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001135001.1](#), [NP\\_001128473.1](#)

**RefSeq Size:** 2608 bp

**RefSeq ORF:** 1530 bp

**Locus ID:** 26931

**Cytogenetics:** 12 60.56 cM

**Gene Summary:** The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. The PP2A-PPP2R5C holoenzyme may activate TP53 and play a role in DNA damage-induced inhibition of cell proliferation. PP2A-PPP2R5C may also regulate the ERK signaling pathway through ERK dephosphorylation (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (4) has multiple differences, compared to variant 1. These differences result in distinct 5' and 3' UTRs and cause translation initiation at an alternate upstream start codon, compared to variant 1. The resulting isoform (d) is shorter and has distinct N- and C-termini, compared to isoform a.