

Product datasheet for **MC217451**

PPP2R5C (NM_012023) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5C (NM_012023) 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



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Fully Sequenced ORF: >MC217451 representing NM_012023
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTGACATGTAATAAAGCGGGCAGCGGGATGGTGGTGGATGCGGCCAGCTCCAACGGGCCTTTCCAGC
 CCGTGGCCCTTCCACATTCGAGATGTTCTCTCGCGATCAAGAGAAGCTTTTATCCAGAAGCTACG
 CCAGTGTGTGTCTCTTTGACTTTGTCTCTGACCCACTGAGTGACCTGAAGTGGAGGAAGTAAAGCGC
 GCTGCGCTGAGCGAGATGGTGGAGTATACACCCACAACCGAACGTGATCACGGAGCCATTTACCCCG
 AGGCCGTCCACATGTTTGCAGTTAACATGTTCCGAACCTTGCCACCTTCTCCAATCCCACGGGAGCAGA
 ATTCGACCCAGAAGAGGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTGCAGCTTGTATGAATTT
 TTCTTAAGATTTTAGAGTCTCCAGATTTCCAACCAATATAGCAAAGAAATATATTGATCAGAAGTTG
 TATTGCAGCTTCTAGAGCTGTTTACAGCGAGGATCCTCGGGAGAGAGATTTTCTAAAACCACCCTGCA
 CAGAATCTATGGGAAGTCTTAGGCCTGCGTGCTTACATCAGGAAACAGATCAATAATATATTTTATAGG
 TTTATCTATGAGACAGAGCATACAATGGCATAGCGGAGTTACTGGAGATCCTGGGAAGTATAATTAATG
 GATTTGCCTTACCACTGAAGGAGGAACAAGATTTTCTGCTGAAGGTGTTGCTGCCCTTGACAAAAGT
 GAAGTCCCTGAGTGTCTACCATCCCGAGCTGGCGTACTGTGTCGTGCAGTTTTAGAGAAGGACAGCACC
 CTCACTGAACCAAGTGAATGGCACTTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAGTAAATGT
 TCTTAAATGAATTAGAAGAAATTTAGATGTAATTGAACCATCAGAGTTTGTGAAGATCATGGAGCCTCT
 TTTCCGACAGTTAGCCAAATGTGTTTCCAGCCCTCACTCCAGGTGGCCGAGCGGGCGCTCTATTACTGG
 AACACGAGTACATCATGAGTTTAAATCAGTGACAACGCAGCGAAGATTCTGCCCATCATGTTTCCGTCCT
 TATACCGCAACTCAAAGACCCACTGGAACAAGACAATACACGGCTTGATATACAACGCCCTGAAACTTT
 CATGGAGATGAACCAAAAACCTTTCGATGACTGCACTCAGCAGTTCAAAGCAGAGAAACTCAAAGAGAAG
 CTA AAAATGAAAGAGCGAGAAGAAGCATGGGTTAAAATAGAAAATCTAGCCAAAGCGAATCCCCAGTATG
 CAGTGTATAGTCAAGCCAGCGCCGTGAGCATTCCGGTCGCAATGGAGACAGATGGGCCTCAGTTTGAAGA
 TGTGCAGATGCTGAAAAAGACAGTGAGCGACGAGGCTCGTCAGGCACAGAAGGAGCTGAAGAAGGATCGT
 CCCCTCGTGCGCCGAAGTCCGAGCTGCCTCAGGACCCCCACACCGAGAAAGCCTTGAAGCTCACTGCA
 GAGCCAGTGAGCTGCTCTCCAGGACGGGCGC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_012023
- Insert Size:** 1575 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_012023.3](#), [NP_036153.2](#)

RefSeq Size: 4238 bp

RefSeq ORF: 1575 bp

Locus ID: 26931

UniProt ID: [Q60996](#)

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 (1) encodes the longest isoform (a).