

## Product datasheet for **MR225566**

### PPP2R5C (NM\_001081457) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5C (NM_001081457) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR225566 representing NM\_001081457  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGACATGTAATAAAGCGGGCAGCGGGATGGTGGTGGATGCGGCCAGCTCCAACGGGCCTTTCCAGC  
 CCGTGGCCCTTCTCCACATTCGAGATGTTCTCTCGCGATCAAGAGAAGCTTTTATCCAGAAGCTACG  
 CCAAGTGTGTCTCTTTGACTTTGTCTCTGACCCACTGAGTGACCTGAAGTGGAGGAAGTAAAGCGC  
 GCTGCGCTGAGCGAGATGGTGGAGTATACACCCACAACCGAACGTGATCACGGAGCCATTTACCCCG  
 AGGCCGTCACATGTTTGCAGTTAACATGTTCCGAACCTTGCCACCTTCTCCAATCCCACGGGAGCAGA  
 ATTCGACCCAGAAGAGGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTGCAGCTTGTATGAATTT  
 TTCTTAAGATTTTAGAGTCTCCAGATTTCCAACCAATATAGCAAAGAAATATATTGATCAGAAGTTG  
 TATTGCAGCTTCTAGAGCTGTTTACAGCGAGGATCCTCGGGAGAGAGATTTTCTAAAAACCACCCTGCA  
 CAGAATCTATGGGAAGTCTTAGGCCTGCGTGCTTACATCAGGAAACAGATCAATAATATATTTTATAGG  
 TTTATCTATGAGACAGAGCATCACAATGGCATAGCGGAGTTACTGGAGATCCTGGGAAGTATAATTAATG  
 GATTTGCCTTACCACTGAAGGAGGAACAAGATTTTCTGCTGAAGGTGTTGCTGCCCTTGACAAAAGT  
 GAAGTCCCTGAGTGTCTACCATCCCCAGCTGGCGTACTGTGTCGTGCAGTTTTAGAGAAGGACAGCACC  
 CTCACTGAACCAAGTGAATGGCACTTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAGTAAATGT  
 TCTTAAATGAATTAGAAGAAATTTAGATGTAATTGAACCATCAGAGTTTGTGAAGATCATGGAGCCTCT  
 TTTCCGACAGTTAGCCAAATGTGTTTCCAGCCCTCACTCCAGGTGGCCGAGCGGGCGCTCTATTACTGG  
 AACACGAGTACATCATGAGTTTAACTAGTGACAACGCAGCGAAGATTCTGCCATCATGTTTCCGTCCT  
 TATACCGCAACTCAAAGACCCACTGGAACAAGACAATACACGGCTTGATATACAACGCCCTCAAACACTTT  
 CATGGAGATGAACCAAAAACCTTTCGATGACTGCACTCAGCAGTTCAAAGCAGAGAAAACCAAAGAGAAG  
 CTAATAATGAAAGAGCGAGAAGAAGCATGGGTTAAAATAGAAAATCTAGCCAAAGCGAATCCCCAGGCAC  
 AGAAGGAGCTGAAGAAGGATCGTCCCCTCGTGCCCGCAAGTCCGAGCTGCCTCAGGACCCACACCGA  
 GAAAGCCTTGAAGCTCACTGCAGAGCCAGTGAGTGTCTCTCCAGGACGGGCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225566 representing NM\_001081457  
 Red=Cloning site Green=Tags(s)

MLTCNKAGSGMVVDAASSNPFQPVALLHIRDVPPADQEKLFIQKLRQCCVLFDFVSDPLSDLKWKEV  
 AALSEMVEYITHNRNVITEPIYPEAVHMFVNMFRLLPSSNPTGAEFDPEEDEPTLEAAWPHLQLVYEF  
 FLRFLESPDFQPNIAKKYIDQKFLVQLLELFDSEDPREDFLKTTLHRIYKFLGLRAYIRKQINNIFYR  
 FIYETEHHNGIAELLEILGSIINGFALPLKEEHKIFLLKVLPLHKVKSLSVYHPQLAYCVVQFLEKDS  
 LTEPVMALLKYWPKTHSPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYW  
 NNEYIMSLISDNAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAELKKEK  
 LKMKEREEAWVKIENLAKANPQAQKELKKDRPLVRRKSELPQDPHTEKALEAHCRASELLSQDGR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

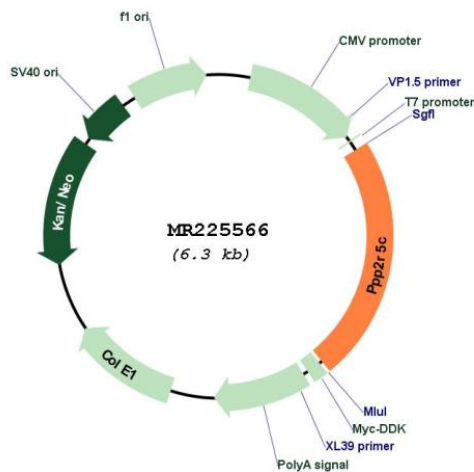
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001081457

ORF Size: 1455 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\\_001081457.3](#)

**RefSeq Size:** 4107 bp

**RefSeq ORF:** 1458 bp

**Locus ID:** 26931

**UniProt ID:** [Q60996](#)

**Cytogenetics:** 12 60.56 cM

**MW:** 57 kDa

**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]