

Product datasheet for **MR225629**

PPP2R5C (NM_001135001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5C (NM_001135001) 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:

>MR225629 representing NM_001135001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCGAATAAAAACAAGAAGGAGAAGAACCACCAAACCGGTGAAAAGTGAAAAGGTCCAAAAGAAG
 GACAAGATACAGCAGAAAACAGAGATAGCCAGCAGGAAAAATAGCCTCACGTTGTCCAGTCTTCGACATC
 TACTAAAATAAAAAGTACCAATCCCTCAACCCGTCGTCGTCCTGTGAAGAAAAGACAAACGGCAGAATTCT
 TCACGGTTAATGCCAGCAATAATAGAGAGCTACAAAACTCCCATCTTTAAAAGATGTTCTCTGCGG
 ATCAAGAGAAGCTTTTTATCCAGAAGCTACGCCAGTGTGTGTCCTTTGACTTTGTCTCTGACCCACT
 GAGTGACCTGAAGTGAAGGAAGTAAAGCGCGCTGCGCTGAGCGAGATGGTGGAGTATATCACCCACAAC
 CGGAACGTGATCACGGAGCCATTTACCCGAGGCCGTCACATGTTTGCAGTTAACATGTTCCGAACCT
 TGCCACCTTCTCCAATCCACGGGAGCAGAATTCGACCCAGAAGAGGATGAACCAACGTTAGAAGCAGC
 CTGGCCTCATCTGCAGCTTGTTTATGAATTTTTCTTAAGATTTTTAGAGTCTCCAGATTTCCAACCCAAT
 ATAGCAAAGAAATATATTGATCAGAAGTTGTATTGCAGCTTCTAGAGCTGTTTACAGCGAGGATCCTC
 GGGAGAGAGATTTTCTAAAACCCCTGCACAGAATCTATGGGAAGTCTTAGGCCTGCGTGCTTACAT
 CAGGAAACAGATCAATAATATATTTTATAGGTTTATCTATGAGACAGAGCATCACAATGGCATAGCGGAG
 TTAAGTGGAGATCTGGGAAGTATAATTAATGGATTTGCCTTACCCTGAAGGAGGAACACAAGATTTTCC
 TGCTGAAGGTGTTGCTGCCCTTGACAAAAGTGAAGTCCCTGAGTGTCTACCATCCCAGCTGGCGTACTG
 TGTCGTGCAGTTTTAGAGAAGGACAGCACCCCTCACTGAACCAAGTGGTAAATGGCACTTCTCAAATACTGG
 CCAAAGACTCACAGTCCAAAAGAAGTAAATGTTCTTAAATGAATTAAGAAGAAATTTAGATGTAATTGAAC
 CATCAGAGTTTGTGAAGATCATGGAGCCTTTTTCCGACAGTTAGCCAAATGTGTTTCCAGCCCTCACT
 CCAGGTGGCCGAGCGGGCGCTCTATTACTGGAACAACGAGTACATCATGAGTTTAAATCAGTGACAACGCA
 GCGAAGATTCTGCCCATCATGTTTCCGTCCTTATACCGCAACTCAAGACCCACTGGAACAAGACAATAC
 ACGGCTTGATATACAACGCCCTGAAACTCTTATGGAGATGAACCAAAAACCTCTTCGATGACTGCACTCA
 GCAGTTCAAAGCAGAGAAACTCAAAGAGAAGCTAAAAATGAAAGAGCGAGAAGAAGCATGGGTTAAATA
 GAAAATCTAGCCAAAGCGAATCCCAGGTAATAAAAAGAGAGTAACCTCGGGAGTGT

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225629 representing NM_001135001
 Red=Cloning site Green=Tags(s)

MPNKNKKEKEPPKPVKSGKPKGQDTEIETIASRKNSLTVVQSSTSTKIKVPIQPVVVPVKDKRQNS
 SRFNASNNRELQKLPKLDVPPADQEKLFIQKLRQCCVLFDFVSDPLSDLKWEVKRAALSEMVEYITHN
 RNVITEPIYPEAVHMFVNMFRLLPSSNPTGAEFDPDEEPTLEAAWPHLQLVYEFFLRFLFESPDFQPN
 IAKKYIDQKFVLQLELFDSEDPREDFLKTTLHRIYKFLGLRAYIRKQINNIFYRFIYETEHNGIAE
 LLEILGSIINGFALPLKEHKIFLLKVLPLHKVKSLSVYHPQLAYCVVQFLEKDSLTPVVMALLKYW
 PKTHSPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYWNEYIMSLISDNA
 AKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKLEKLEKMKEREEAWVKI
 ENLAKANPQVLKRVTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

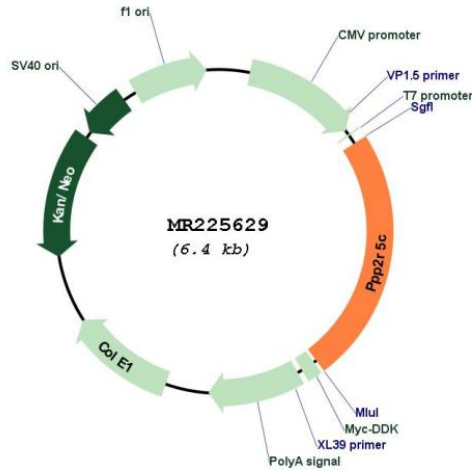
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001135001

ORF Size: 1527 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_001135001.2](#)

RefSeq Size: 2608 bp

RefSeq ORF: 1530 bp

Locus ID: 26931

Cytogenetics: 12 60.56 cM

MW: 59.8 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]