

Product datasheet for **MR225564**

PPP2R5C (NM_012023) Mouse Tagged ORF Clone

Product data:

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

>MR225564 representing NM_012023
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGACATGTAATAAAGCGGGCAGCGGGATGGTGGTGGATGCGGCCAGCTCCAACGGGCTTTCCAGC
 CCGTGGCCCTTCCACATTCGAGATGTTCTCTCGCGATCAAGAGAAGCTTTTATCCAGAAGCTACG
 CCAGTGTGTGTCTCTTTGACTTTGTCTCTGACCCACTGAGTGACCTGAAGTGGAAAGGAAGTAAAGCGC
 GCTGCGCTGAGCGAGATGGTGGAGTATACACCCACAACCGAACGTGATCACGGAGCCATTTACCCCG
 AGGCCGTCACATGTTTGCAGTTAACATGTTCCGAACCTTGCCACCTTCTCCAATCCCACGGGAGCAGA
 ATTCGACCCAGAAGAGGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTGCAGCTTGTATGAATTT
 TTCTTAAGATTTTAGAGTCTCCAGATTTCCAACCAATATAGCAAAGAAATATATTGATCAGAAGTTG
 TATTGCAGCTTCTAGAGCTGTTTACAGCGAGGATCCTCGGGAGAGAGATTTTCTAAAACCACCCTGCA
 CAGAATCTATGGGAAGTCTTAGGCCTGCGTGCTTACATCAGGAAACAGATCAATAATATATTTTATAGG
 TTTATCTATGAGACAGAGCATCACAAATGGCATAGCGGAGTTACTGGAGATCCTGGGAAGTATAATTAATG
 GATTTGCCTTACCACTGAAGGAGGAACAAGATTTTCTGCTGAAGGTGTTGCTGCCCTTGACAAAGT
 GAAGTCCCTGAGTGTCTACCATCCCGAGCTGGCGTACTGTGTCGTGCAGTTTTAGAGAAGGACAGCACC
 CTCACTGAACCAAGTGAATGGCACTTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAAGTAAATGT
 TCTTAAATGAATTAGAAGAAATTTAGATGTAATTGAACCATCAGAGTTTGTGAAGATCATGGAGCCTCT
 TTTCCGACAGTTAGCCAAATGTGTTTCCAGCCCTCACTCCAGGTGGCCGAGCGGGCGCTCTATTACTGG
 AACACGAGTACATCATGAGTTTAAATCAGTGACAACGCAGCGAAGATTCTGCCCATCATGTTTCCGTCCT
 TATACCGCAACTCAAAGACCCACTGGAACAAGACAATACACGGCTTGATATACAACGCCCTGAAACTCTT
 CATGGAGATGAACCAAAAACCTTTCGATGACTGCACTCAGCAGTTCAAAGCAGAGAAAACCTCAAAGAGAAG
 CTA AAAATGAAAGAGCGAGAAGAAGCATGGGTTAAAATAGAAAATCTAGCCAAAGCGAATCCCCAGTATG
 CAGTGTATAGTCAAGCCAGCGCCGTGAGCATTCCGGTCGCAATGGAGACAGATGGGCCTCAGTTTGAAGA
 TGTGCAGATGCTGAAAAAGACAGTGAGCGACGAGGCTCGTCAGGCACAGAAGGAGCTGAAGAAGGATCGT
 CCCCTCGTGCGCCGAAGTCCGAGCTGCCTCAGGACCCACACCCGAGAAAGCCTTGAAGCTCACTGCA
 GAGCCAGTGAGCTGCTCTCCAGGACGGGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225564 representing NM_012023
 Red=Cloning site Green=Tags(s)

MLTCNKAGSGMVVDAASSNGPFQPVALLHIRDVPPADQEKLFIQKLRQCCVLFDFVSDPLSDLKWKVEKRV
 AALSEMVEYITHNRNVIETPIYPEAVHMFVNMFRLLPSSNPTGAEFDPEDEPTLEAAWPHLQLVYEF
 FLRFLESPDFQPNIAKKYIDQKFLVQLLELFDSEDPREDFLKTTLHRIYKFLGLRAYIRKQINNIFYR
 FIYETEHNGIAELLEILGSIINGFALPLKEEHKIFLLKVLPLHKVKSLSVYHPQLAYCVVQFLEKDY
 LTEPVVMALLKYWPKTHSPKVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYW
 NNEYIMSLISDNAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAELKKEK
 LKMKEREEAWVKIENLAKANPQYAVYSQASAVSIPVAMETDGPQFEDVQMLKKTYSDEARQAQKELKKDR
 PLVRRKSELPPHTEKALEAHCRASELLSQDGR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

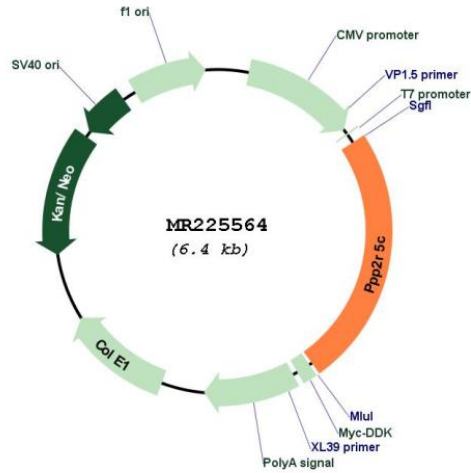
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_012023
ORF Size:	1572 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:	<ol style="list-style-type: none">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_012023.4
RefSeq Size:	4224 bp
RefSeq ORF:	1575 bp
Locus ID:	26931
UniProt ID:	Q60996
Cytogenetics:	12 60.56 cM
MW:	61.3 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]