

Product datasheet for **MG225629**

Ppp2r5c (NM_001135001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp2r5c (NM_001135001) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppp2r5c
Synonyms:	2610043M05Rik; 2700063L20Rik; AI060890; AW545884; C85228; D12Bwg0916e; mKIAA0044
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225629 representing NM_001135001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCGAATAAAAACAAGAAGGAGAAGAACCACCAAACCGGTGAAAAGTGAAAAGGTCCAAAAGAAG
 GACAAGATACAGCAGAAAACAGAGATAGCCAGCAGGAAAAATAGCCTCACGTTGTCCAGTCTTCGACATC
 TACTAAAATAAAAAGTACCAATCCCTCAACCCGTCGTCGTCCTGTGAAGAAAAGACAAACGGCAGAATTCT
 TCACGGTTAATGCCAGCAATAATAGAGAGCTACAAAACTCCCATCTTTAAAAGATGTTCTCCTGCGG
 ATCAAGAGAAGCTTTTTATCCAGAAGCTACGCCAGTGTGTGTCCTTTGACTTTGTCTCTGACCCACT
 GAGTGACCTGAAGTGAAGGAAGTAAAGCGCGCTGCGCTGAGCGAGATGGTGGAGTATATCACCCACAAC
 CGGAACGTGATCACGGAGCCATTTACCCCGAGGCCGTCACATGTTTGCAGTTAACATGTTCCGAACCT
 TGCCACCTTCTCCAATCCCACGGGAGCAGAATTCGACCCAGAAGAGGATGAACCAACGTTAGAAGCAGC
 CTGGCCTCATCTGCAGCTTGTTTATGAATTTTTCTTAAGATTTTTAGAGTCTCCAGATTTCCAACCCAAT
 ATAGCAAAGAAATATATTGATCAGAAGTTGTATTGCAGCTTCTAGAGCTGTTTGACAGCGAGGATCCTC
 GGGAGAGAGATTTTCTAAAACCACCCTGCACAGAATCTATGGGAAGTCTTAGGCCTGCGTGCTTACAT
 CAGGAAACAGATCAATAATATATTTTATAGGTTTATCTATGAGACAGAGCATCACAATGGCATAGCGGAG
 TTACTGGAGATCTGGGAAGTATAATTAATGGATTTGCCTTACCCTGAAGGAGGAACACAAGATTTTCC
 TGCTGAAGGTGTTGCTGCCCTTGACAAAAGTGAAGTCCCTGAGTGTCTACCATCCCAGCTGGCGTACTG
 TGTCGTGCAGTTTTTAGAGAAGGACAGCACCCCTCACTGAACCAAGTGGTAAATGGCACTTCTCAAATACTGG
 CCAAAGACTCACAGTCCAAAAGAAGTAAATGTTCTTAAATGAATTAAGAAGAAATTTAGATGTAATTGAAC
 CATCAGAGTTTTGTGAAGATCATGGAGCCTTTTTCCGACAGTTAGCCAAATGTGTTTCCAGCCCTCACTT
 CCAGGTGGCCGAGCGGGCGCTCTATTACTGGAACAACGAGTACATCATGAGTTTAAATCAGTGACAACGCA
 GCGAAGATTCTGCCCATCATGTTTCCGTCCTTATACCGCAACTCAAGACCCACTGGAACAAGACAATAC
 ACGGCTTGATATAACAACGCCCTGAAACTCTTATGGAGATGAACCAAAAACCTCTTCGATGACTGCACTCA
 GCAGTTCAAAGCAGAGAAACTCAAAGAGAAGCTAAAAATGAAAGAGCGAGAAGAAGCATGGGTTAAATA
 GAAAATCTAGCCAAAGCGAATCCCAGGTACTAAAAAGAGAGTAACCTCGGGAGTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225629 representing NM_001135001
 Red=Cloning site Green=Tags(s)

MPNKNKKEKPPKPVKSGKPKGQDTAETEIASRKNSLTVVQSSTSTKIKVIPQPVVVPPVKKDKRONS
 SRFNASNNRELQKLPKLDVPPADQEKLFIQKLRQCCVLFDFVSDPLSDLKWKVEVKRAALSEMVEYITHN
 RNVITEPIYPEAVHMFVNMFRLLPSSNPTGAEFDPEEDEPTLEAAWPHLQLVYEFFLRFLFLESPDFQPN
 IAKKYIDQKFVLQLELFDSEDPREDFLKTTLHRIYGFGLRAYIRKQINNIFYRFIYETEHHNGIAE
 LLEILGSIINGFALPLKEEHKIFLLKVLPLHKVKSLSVYHPQLAYCVVQFLEKDSLTPVVMALLKYW
 PKTHSPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYWNNEYIMSLISDNA
 AKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKLEKLEKMKEREAEWVKI
 ENLAKANPQVLKRVTRC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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

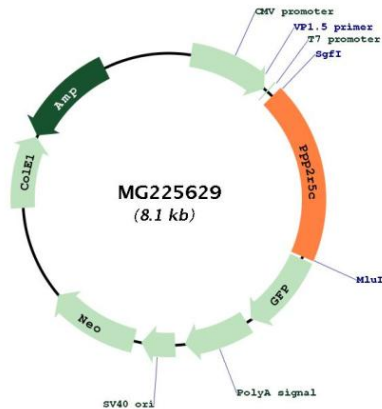
Locus ID: 26931

Cytogenetics: 12 60.56 cM

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]

Product images:



Circular map for MG225629