

Product datasheet for **RC224154**

PPP2R2C (NM_020416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	PPP2R2C
Synonyms:	B55-GAMMA; B55gamma; IMYPNO; IMYPNOI; PR52; PR55G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224154 representing NM_020416
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCGAGGACACGGACACGCGGAAAATTAACCACAGCTTCTGCGGGACCACAGCTATGTGACTGAAG
 CTGACATCATCTCTACCGTTGAGTTCAACCACACGGGAGAGCTGCTGGCCACAGGTGACAAGGGCGGCCG
 GGTCGTCATCTTCCAGCGGGAACAGAGAGTAAAAATGCGCCACAGCCAGGGCGAATACGACGTGTAC
 AGCACTTTCAGAGCCACGAGCCGGAGTTTGACTATCTCAAGAGCCTGGAGATAGAGGAGAAGATCAACA
 AGATCAAGTGGCTCCACAGCAGAAGCGCCCACTCACTCTGTCCACCAACGATAAACTATCAAATT
 ATGGAAGATTACCGAACGAGATAAAGGCCCGAAGGATACAACCTGAAGGATGAAGAGGGGAACTTAAG
 GACCTGTCCACGGTGACGTCACTGCAGGTGCCAGTGCTGAAGCCCATGGATCTGATGGTGGAGGTGAGCC
 CTCGGAGGATCTTTGCCAATGGCCACACCTACCACATCAACTCCATCTCCGTCAACAGTGACTGCGAGAC
 CTACATGTGCGGCGATGACCTGCGCATCAACTCTGGCACCTGGCCATCACCGACAGGAGCTTCAACATC
 GTGGACATCAAGCCGGCAACATGGAGGACCTTACGGAGGTGATCACAGCATCTGAGTTCCATCCGCACC
 ACTGCAACCTCTTCGTCTACAGCAGCAGCAAGGGCTCCCTGCGGCTCTGCGACATGCGGGCAGCTGCCCT
 GTGTGACAAGCATTCCAAGCTCTTTGAAGAGCCTGAGGACCCAGTAACCGCTATTCTTCTCGAAATC
 ATCTCTCCGTGTCCGACGTGAAGTTCAGCCACAGCGCCGCTACATGCTCACCGGAGTACCTTACAG
 TCAAGGTCTGGGACCTGAACATGGAGGCAAGACCATAGAGACCTACCAGGTCCATGACTACCTTCGGAG
 CAAGCTCTGTTCCCTGTACGAGAACGACTGCATTTTCGACAAGTTGAATGTGCCTGGAACGGGAGCGAC
 AGCGTCATCATGACCGGGGCTACAACAATTCTTCCGCATGTTGATCGGAACACCAAGCGGGACGTGA
 CCCTGGAGGCTCGAGGAAAGCAGCAAGCCCGGGCTGTGCTCAAGCCACGGCGCTGTGCGTGGGGGG
 CAAGCGCCGCGTGATGACATCAGTGTGGACAGCTTGACTTCACCAAGAAGATCCTGCACACGGCCTGG
 CACCCGGCTGAGAACATCATTGCCATCGCCGCCACCAACAACCTGTACATCTTCCAGGACAAGGTAACCT
 CTGACATGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224154 representing NM_020416
 Red=Cloning site Green=Tags(s)

MGEDTDTRKINHSFLRDHSYVTEADIISTVEFNHTGELLATGDKGGRVVFQREPESKNAPHSQGEYDVY
 STFQSHPEFDYLSLEIEEKINKIKWLPQQAASHLLSTNDKTIKLWKITERDKRPEGYNLKDEEGKLK
 DLSTVTSLQVPVLKPMMLMVEVSPRRIFANGHTYHINSISVNSDCETYMSADDLRLNLWHLAITDRSFNI
 VDIKPANMEDLTEVITASEFHPHCNLFVYSSKGSRLCDMRAAALCDKHSKLFEEPEDPSNRSFFSEI
 ISSVSDVKFSHSGRYMLTRDYLTVKVWDLNMEARPIETYQVHDYLRSLKSLYENDCIFDKFECAWNGSD
 SVIMTGAYNNFFRMFDRNTKRDVTLASRESSKPRVLKPRRVCVGGKRRRDDISVDSLDFTKKILHTAW
 HPAENIIAIAATNNLYIFQDKVNSDMH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/jal141_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020416

ORF Size: 1341 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

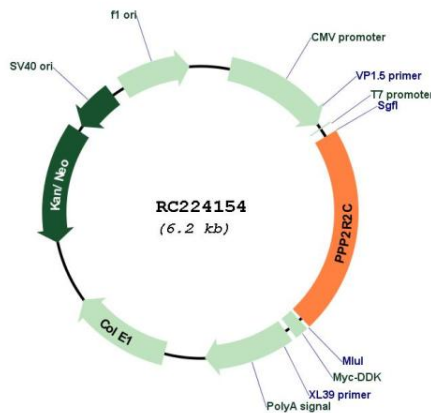
RefSeq: [NM_020416.4](#)

RefSeq Size: 4117 bp

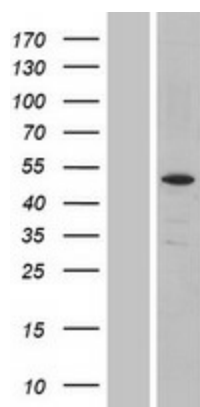
RefSeq ORF:	1344 bp
Locus ID:	5522
UniProt ID:	Q9Y2T4
Cytogenetics:	4p16.1
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Tight junction
MW:	51.3 kDa

Gene Summary: The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a gamma isoform of the regulatory subunit B55 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224154



Western blot validation of overexpression lysate (Cat# [LY412468]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224154 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).