

Product datasheet for **RC211104**

PPP2R5A (NM_006243) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5A (NM_006243) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R5A
Synonyms:	B56A; B56alpha; PR61A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211104 representing NM_006243
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTCGTCGTCGCCGCCGGGGCTGCCAGCGCCGCATCTCGGCCTCGGAGAAAGTGGACGGCT
 TCACCCGGAAATCGGTCCGCAAGGCGCAGAGGCAGAAGCGCTCCAGGGCTCGTCGCAGTTTCGCAGCCA
 GGGCAGCCAGGCAGAGCTGCACCCGCTGCCCCAGCTCAAAGATGCCACTTCAAATGAACAACAAGAGCTT
 TTCTGTGAGAAGTTGCAGCAGTGTGTATACTGTTGATTTTCATGGACTCTGTTTCAGACTTGAAGAGCA
 AAGAAATTAAGAGCAACTGAATGAAGTGTGAGTATGTTCAACTAATCGTGGTGAATTGTTGA
 ATCAGCGTATTCTGATATAGTAAAAATGATCAGTGCTAACATCTCCGTACACTTCTCCAAGTGATAAT
 CCAGATTTTATCCAGAAGAGGATGAACCCAGCTTGAGGCTCTTGGCCTCACATACAGTTGGTATATG
 AATTCTTCTGAGATTTTGGAGAGCCCTGATTTCCAGCCTAGCATTGCAAAACGATACATTGATCAGAA
 ATTCGTACAACAGCTCCTGGAGCTTTTGTAGTGAAGATCCAGAGAACGTGACTTCTGAAGACTGTT
 CTGCACCGAATTTATGGGAAATTTCTGGATTAAGAGCATTTCATCAGAAAACAAATTAACAACATTTTCC
 TCAGGTTTATATGAAACAGAACATTTCAATGGTGTGCTGAACCTTCTGAAATATTAGGAAGTATTAT
 CAATGGCTTTGCATTGCCACTGAAAGCAGAACATAAAACAATTTCTAATGAAGTTCTTATTCCTATGCAT
 ACTGCAAAAGGATTAGCTTTGTTTCATGCTCAGCTAGCATATTGTGTTGTACAGTTCTGGAGAAAGATA
 CAACACTAACAGAGCCAGTGATCAGAGGACTGCTGAAATTTGGCCAAAAACCTGCAGTCAGAAAGAGGT
 GATGTTTTTAGGAGAAATGAAGAAATCTTAGATGTCATTGAACCAACACAGTTCAAAAAATTGAAGAG
 CCACTTTTCAAGCAGATATCCAAGTGTGTATCCAGTTCATTTTCAGGTTGCAGAAAGGCGATTGTACT
 TCTGGAATAACGAATATATTCTTAGTTGATTGAGGAGAACATTGATAAAATCTGCCAATATGTTTGC
 CAGTTTTGTACAAAATTTCAAAGAACAACCTGGAATCCGACCATTGTAGCACTGGTATACAATTGTGCTGAAA
 ACCCTAATGGAATGAATGGCAAGCTTTTCGATGACCTTACTAGCTCATACAAAGCTGAAAGACAGAGAG
 AGAAAAAGAAGGAATTGGAACGTGAAGAATTATGGAAAAAATTAGAGGAGCTAAAGCTAAAGAAAGCTCT
 AGAAAAACAGAATAGTGCTTACAACATGCACAGTATTCTCAGCAATACAAGTGCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211104 representing NM_006243
 Red=Cloning site Green=Tags(s)

MSSSSPPAGAASAAISASEKVDGFTRKSVRKAQRQKRSQGSQFRSQSQAELHPLPQLKDATSNEQQEL
 FCQKLQCCILFDFMDSVSDLKSKEIKRATLNELVEYVSTNRGVIVESAYSIDIKMSANIFRTLPPSDN
 PDFDPEEDEPTLEASWPHIQLVYEFFLRFLFLESPDFQPSIAKRYIDQKFVQQLLELFDSEDPREDFLKT
 LHRIYGFGLRAFIRKQINNIPLRFIYETEHFNGVAELLEILGSIINGFALPLKAEHKQFLMKVLI
 TAKGLALFHAQLAYCVVQFLEKDTTLETPVIRGLLKFVWPKTCSQKEVMFLGIEEILDVIEPTQFKKIEE
 PLFKQISKCVSSSHFQVAERALYFNNNEYILSLIEENIDKILPIMFASLYKISKEHWNPTIVALVYNV
 LKLMEMNGKLFDDLTSSYKAERQREKKELEREELWKKLEELKLEKQNSAYNMHSILSNTSAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

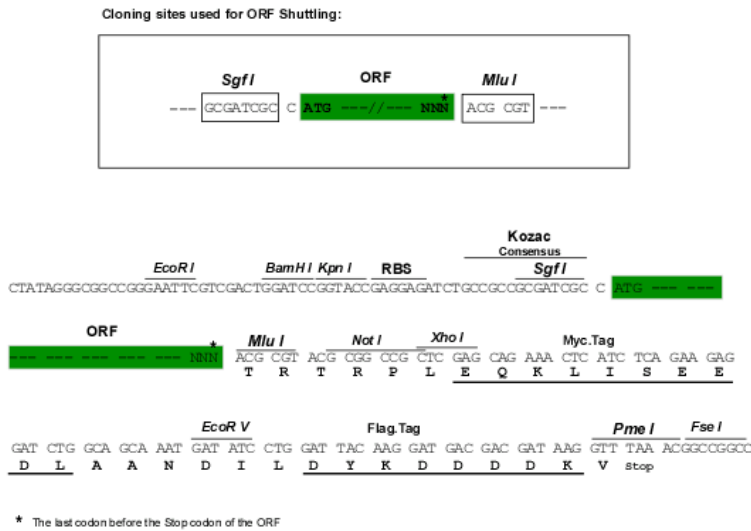
Chromatograms:

https://cdn.origene.com/chromatograms/mk8114_f10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_006243

ORF Size: 1458 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_006243.4](#)

RefSeq Size: 3145 bp

RefSeq ORF: 1461 bp

Locus ID: 5525

UniProt ID: [Q15172](#)

Cytogenetics: 1q32.3

Domains: B56

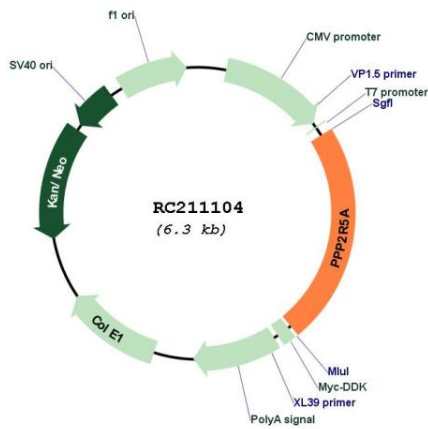
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Oocyte meiosis, Wnt signaling pathway

MW: 56 kDa

Gene Summary: The product of this gene belongs to the phosphatase 2A regulatory subunit B family. Protein phosphatase 2A 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 an alpha isoform of the regulatory subunit B56 subfamily. Alternative transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC211104