

Product datasheet for **RC201497**

PPP2R3C (NM_017917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R3C (NM_017917) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R3C
Synonyms:	C14orf10; G4-1; G5pr; GDRM; SPGF36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC201497 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTGGAAGAAGTTCCTTCGTCGGCGCTAGCGACGCCAACACCTGTCCAACAAAAAAAAAAGTG
 AACAGAATTAAGATGAAGAAATGGATTTATTTACAAAATATTACTCCGAATGGAAAGGAGGTAGAAA
 AACACAAATGAATTCTATAAGACCATTCCCGGTTTTATTATAGGCTGCCTGCTGAAGATGAAGTCTTA
 CTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAGCAGAGAACTGTTAGATAATG
 AAGAATTACAGAACTTATGGTTTTGCTGGACAAACACCAGACACCACCTATGATTGGAGAGGAAGCGAT
 GATCAATTACGAAAACCTTTTGAAGTTGGTGAAGGCTGGAGCAAAGTGAAGCAATTTTTCACAGCA
 AAAGTCTTTGCTAACTCCTTCATACAGATTATGGAAGAATTCATCATGCAGTTCTTTAATTATG
 TCATGAGAAAAGTTGGCTTCATCAACAAGAATAGGACTCAGTTTATATGATGTCGCTGGGCAGGGGTA
 CCTTCGGGAATCTGATTTAGAAAACATATTTGGAACCTATCCCTACGTTGCCACAATTAGATGGTCTG
 GAAAAATCTTTCTACTCCTTTTATGTTGTACAGCAGTTAGGAAGTCTTCTTTCTTTTAGATCCTTTAA
 GAACAGGAAAGATAAAAAATCAAGATATTTAGCATGCAGCTTCCTAGATGATTTATTGGAGCTAAGGGA
 TGAGGAACTGTCCAAGGAGAGTCAAGAAACAAATTGGTTTTCTGCTCCTTCTGCCCTAAGAGTTTATGGC
 CAGTACTTGAATCTTGATAAAGATCACAATGGCATGCTCAGTAAAGAAGAACTCTCACGCTATGGAACAG
 CTACCATGACCAATGTCTTCTAGACCGTGTTCAGGAGTGTCTCACTTATGATGGAGAAATGGACTA
 TAAGACCTACTTGGACTTTGCTTGCATTAGAAAACAGAAAGGAACCTGCAGCTCTACAATATATTTTC
 AAAGTCTTGATATTGAGAACAAAGGATACCTGAATGTCTTTTCACTTAATTATTTCTTTAGGGCCATAC
 AGGAACCTAATGAAAATCCATGGACAAGATCCTGTTTCATTCAAGATGTCAAGGATGAAATCTTTGACAT
 GGTAAAACCAAAGGATCCTTTGAAAATCTCTCTTCAGGATTTAATCAACAGTAATCAAGGAGACACAGTA
 ACCACCATTCTAATCGATTTGAATGGCTTCTGGACTTACGAGAACAGAGAGGCTCTTGTGCAAAATGACA
 GTGAAAACCTGCAGACCTTGATGATACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201497 protein sequence
 Red=Cloning site Green=Tags(s)

MDWKEVLRRLATPNTCPNKKKSEQELKDEEMDLFTKYSEWKGRKNTNEFYKTIIPRFYYRLPAEDEV
 LQKLREESRAVFLQRKSRELLDNEELQNLWFLLDKHQTPPMIGEEAMINYENFLKVGEKAGACKQFFTA
 KVFALLHTDSYGRISIMQFFNYVMRKVWLHQTRIGLSLYDVAGQGYLRESDLNILELIPTLPQLDGL
 EKSFYFYVCTAVRKFFFLDPLRTGKIKIQDILACSFLLDLLELRDEELSKESQETNWFSAALRVYG
 QYLNLDKDHNGMLSKEELSRYGATMTNVFLDRVFQECLTYDGENMDYKTYLDFVLALENRKEPAALQYIF
 KLLDIENKGYLNVFSLNYFFRAIQELMKIHGQDPVSFQDVKDEIFDMVKPKDPLKISLQDLINSNQGDV
 TTILIDLNGFWTYENREALVANDSENSADLDDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6301_e09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017917

ORF Size: 1359 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_017917.3](#), [NP_060387.2](#)

RefSeq Size: 1843 bp

RefSeq ORF: 1362 bp

Locus ID: 55012

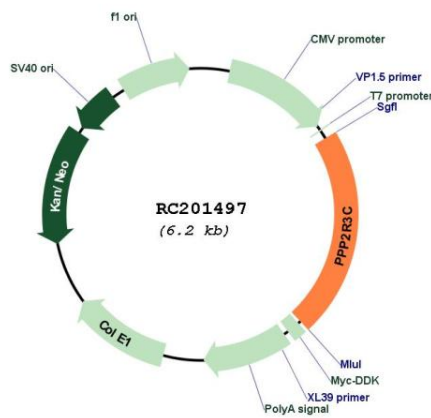
UniProt ID: [Q969Q6](#)

Cytogenetics: 14q13.2

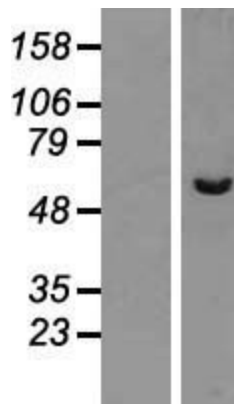
MW: 53.3 kDa

Gene Summary: This gene encodes a regulatory subunit of the serine/threonine phosphatase, protein phosphatase 2. This protein is localized to both nuclear and cytoplasmic regions depending on cell cycle phase. Homozygous conditional knockout mice for this gene exhibit reduced numbers and impaired proliferation of immune system B cells. This protein may regulate the expression of the P-glycoprotein ATP-binding cassette transporter through its phosphatase activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]

Product images:



Circular map for RC201497



Western blot validation of overexpression lysate (Cat# [LY413446]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201497 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP2R3C protein (Cat# [TP301497]). The protein was produced from HEK293T cells transfected with PPP2R3C cDNA clone (Cat# RC201497) using MegaTran 2.0 (Cat# [TT210002]).