

Product datasheet for **RC209763**

PP4R4 (PPP4R4) (NM_058237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PP4R4 (PPP4R4) (NM_058237) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PP4R4
Synonyms:	CFAP14; KIAA1622; PP4R4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209763 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCATCCGCCGCCGCCGCCGCCGCGATGGATTTCAAGTACAGAACAGCCTGTTCCGGTTACATGGAGGACC
 TGCAGGAGCTCACCATCATCGAGAGGCCGGTCCGCCGGAGCCTCAAGACACCGGAAGAAATAGAAAGATT
 GACAGTCGATGAAGACCTCAGTGATATTGAAAGGGCTGTTTATCTGCTCAGTGCTGGTCAAGATGTCCAA
 GGAACAAGTGTGATTGCAAACTCCCATTTTTGATGCGACAGAATCCCACTGAGACGCTTCGGAGAGTGT
 TGCCAAAAGTCAGAGAAGCCCTGCATGTTGCAGGAGTGGAAATGCAGTTAACGGCTGCGATGTCATTTCT
 GACCATTTGCGAGGACGAATCAGTGTCAATTCATGCATATACCCACTCATTCTCCAAGTCATTCTCCTG
 CATCTGGAGCACAGGGACACAGGTGTGCAATGCATGGCTGGAACTCTTCTGTCTGTTATAGAAGTAT
 TGCCAAAAGAAACCTACGGCATGAGATTTTGAATCCACTTGTTTCCAAGGCACAACCTTCCCAAACAGT
 CCAGTCTCGTTTAGTTAGTTGTAATAATTTAGGAAAATTGACCAACAAATTTGATGCCACACCATTAAG
 CGAGAAAATACTTCTCTGGTAAAATCACTCTGTCAAGATGTAGAATATGAAGTTCGATCTTGTATGTGTC
 GGCAATTAGAAAATATAGCCCAGGGCATTGGGACAGAACTTACAAAAAGTGGTGTCCCTGAATTAAT
 AGAACTTTCTAGGGATGAAGGCAGCAGTGTACGACTTGCAGCTTTTGAAGCTTTGGTTAATCTGCTTGT
 ATATTTGATACAGATGACAGAAGTCAAATACTTCCCTTAGTGAAATCATTGTTGAAAAATCTTTCA
 AAGCAGATGAATCAATCTTATTTCTTTATCTTCCATTTAGGAAAATATGTCATGGACTATATGGAA
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 GAAAATGGACACAATGAAAACAGATTCACCCCAATCCTAGAGCAGGAGAAGAAATATATTTCACTAC
 GGAAGAACTGTGCTTATAACTTTCCGGCCATGATTGTTTTGTTGATCCTAAAACTTCCACATGGAACT
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 TAATGTTTTACCTGTCCAAAAGCGGCTTACGAACTCATGCATTTTTCTGCGTTATAATCGTAAACAA
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 AAAGTGAATCTACTCTGAAGATTCTGCTGATAAGCATCTACTTCAGCAGTTAGAAATGTGTGTGAGGA
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 ACTTCCCGTGGGACAGGTAACACTCAGTTGACCCCAAGAGCAGTGGAAAGTAAAGATACACAACCACGGAAG
 CTACCTTAAAATCCAGAAAATCCAATCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209763 protein sequence
 Red=Cloning site Green=Tags(s)

MHPPPPAAAMDFSQNSLFGYMEDLQELTIIERPVRRLKTPPEEIERLTVDEDLSDIERAVYLLSAGQDVQ
 GTSVIANLPFLMRQNPTETLRRVLPKVREALHVAGVEMQLTAAMSFLTILQDESVSIHAYTHSFLQVILL
 HLEHRDTGVSNAWLETLLSVIEVLPKETLRHEILNPLVSKAQLSQTVQSRLVSKILGKLTNKFDAHTIK
 REILPLVKSLCQDVEYEVRSKMCRLQENIAQGGIGTELTKSVVLPETLIELSRDEGSSVRLAAFETLVNLLD
 IFDTRDQILPLVKSFCESKFADESILISLFSHLGKLGKLYGIFTPDQHLRFLEFYKLLCTLGLQQ
 ENGHNENQIPPQILEQEKKYISVRKNCAYNFPAMIVFVDPKNFHMELYSTFFCLCHDPEVPVRYTIAICF
 YEVSKLLNSGVYLIHKELITLLQDESLEVLDAIDHLPETLELMSTGGESSVQENKLSLPLDIPALTA
 EQRAAASLKWRTHEKLLQKYACLPHVISSDQIYYRFLQRMFTIMMTNNVLPVQKAASRTLCIFLRYNRKQ
 EQRHEVIQKLEQLGQKSYWNRLRFLDTCEFIIEIFSKSFFCKYFFLPAIELTHDPVANVRMKLCYLLP
 KVKSTLIPADKHLQLQEMCVRLLCQEKDQDLAIVKRTVLELDRMEMSMDAFQKKFYEKDLLDQEKE
 REELLLLEMEQLEKEKQNDGRPMSDKMFEKRRDTKPTQSLPKNIPISVPGPSSVTPSTKEIKKSKL
 IRSQSFNNQAFHAKYGNLEKCSASKSSTTGYYTSSVGLGKTSVLSLADDSFRTRNASSVPSFSPNTPLPS
 TSRGTGNSVDPKSSGSKDTPRKATLKSRSKSNP

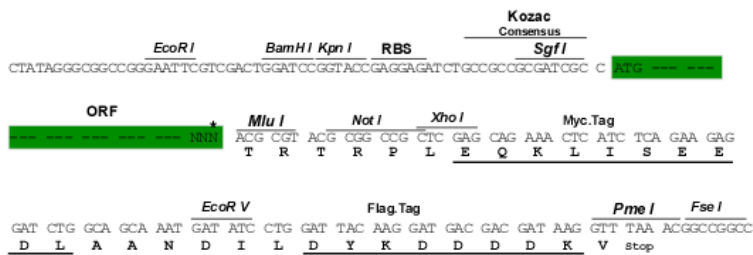
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6230_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

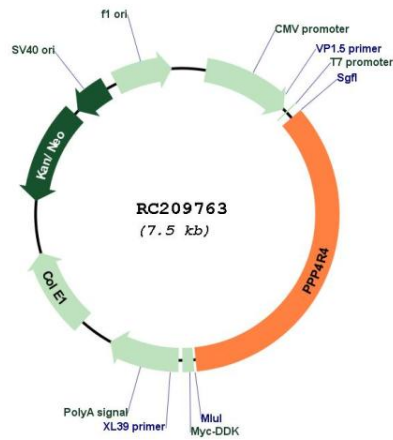
Cloning sites used for ORF Shuttling:



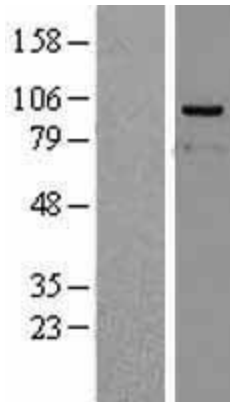
* The last codon before the Stop codon of the ORF

ACCN:	NM_058237
ORF Size:	2619 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_058237.2
RefSeq Size:	3868 bp
RefSeq ORF:	2622 bp
Locus ID:	57718
UniProt ID:	Q6NUP7
Cytogenetics:	14q32.12-q32.13
Domains:	HEAT
Protein Families:	Phosphatase
MW:	99.5 kDa
Gene Summary:	The protein encoded by this gene is a HEAT-like repeat-containing protein. The HEAT repeat is a tandemly repeated, 37-47 amino acid long module occurring in a number of cytoplasmic proteins. Arrays of HEAT repeats form a rod-like helical structure and appear to function as protein-protein interaction surfaces. The repeat-containing region of this protein has some similarity to the constant regulatory domain of the protein phosphatase 2A PR65/A subunit. The encoded protein binds protein serine/threonine phosphatase 4c in the cytoplasm. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RC209763



Western blot validation of overexpression lysate (Cat# [LY409242]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209763 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).