

Product datasheet for **RC231707**

PPP1R14A (NM_001243947) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPP1R14A (NM_001243947) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PPP1R14A
Synonyms: CPI-17; CPI17; PPP1INL
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231707 representing NM_001243947
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCAGCTCAGCGGCTGGGCAAGCGCGTGCTGAGCAAGCTGCAGTCTCCATCGCGGGCCCGGGGCCAG
GGGGCAGTCCCGGGGGGCTGCAGAAGCGGCACGCGCGTCACCGTCAAGTATGACCGCGGGAGCTGCA
GCGGCGGCTGGAGTGGAGAAGTGGATCGACGGCGCCTGGAGGAGCTGTACCGCGCATGGGACTCCTG
AAGTCATGTGGAAACCTGTCGAGGACTTCATCCAGGAGCTGCTGGCAAAGCTTCAAGGCCTCCACAGGC
AGCCCGGCTCCGCCAGCAAGCCCTCCACGACGCGCAGCCTCAGCCCCCTCCAGGACCGGGCCCGGAC
TGCTCACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231707 representing NM_001243947
Red=Cloning site Green=Tags(s)

MAAQRLLGKRVLSKLQSPSRARGPGGSPGGLQKRHARVTVKYDRRELQRRLDVEKWIDGRLEELYRGMGLL
KSCGKPVEDFIQELLAKLQGLHRQPGLRQPSPSHDGSLSPQDRARTAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

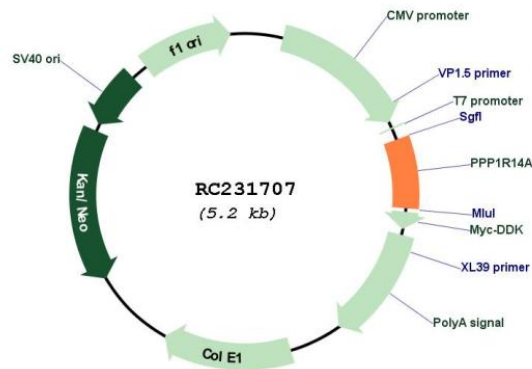


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001243947

ORF Size: 360 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:	<u>NM_001243947.2</u>
RefSeq Size:	701 bp
RefSeq ORF:	363 bp
Locus ID:	94274
UniProt ID:	<u>Q96A00</u>
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Vascular smooth muscle contraction
MW:	13.9 kDa
Gene Summary:	The protein encoded by this gene belongs to the protein phosphatase 1 (PP1) inhibitor family. This protein is an inhibitor of smooth muscle myosin phosphatase, and has higher inhibitory activity when phosphorylated. Inhibition of myosin phosphatase leads to increased myosin phosphorylation and enhanced smooth muscle contraction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Sep 2011]