

Product datasheet for **RG231707**

PPP1R14A (NM_001243947) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPP1R14A (NM_001243947) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PPP1R14A
Synonyms: CPI-17; CPI17; PPP1INL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231707 representing NM_001243947
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGCTCAGCGGCTGGGCAAGCGCGTGCTGAGCAAGCTGCAGTCTCCATCGCGGGCCCGGGCCAG
GGGGCAGTCCCGGGGGCTGCAGAAGCGGCACGCGCGTACCCTCAAGTATGACCGCGGGAGCTGCA
GCGGGCTGGACGTGGAGAAGTGGATCGACGGCGCCTGGAGGAGCTGTACCGCGCATGGACTCCTG
AAGTCATGTGGAAACCTGTCGAGGACTTCATCCAGGAGCTGCTGGCAAAGCTTCAAGGCCTCCACAGGC
AGCCCGGCTCCGCCAGCAAGCCCTCCACGACGGCAGCCTCAGCCCTCCAGGACCGGGCCGGAC
TGCTCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231707 representing NM_001243947
Red=Cloning site Green=Tags(s)
MAAQRLLGKRVLSKLSQSPSRARGPGGSPGGLQKRHARVTVKYDRRELQRRLDVEKWIDGRLEELYRGMGLL
KSCGKPVEDFIQELLAKLQGLHRQPGLRQPSPSHDGSLSPLQDRARTAHP

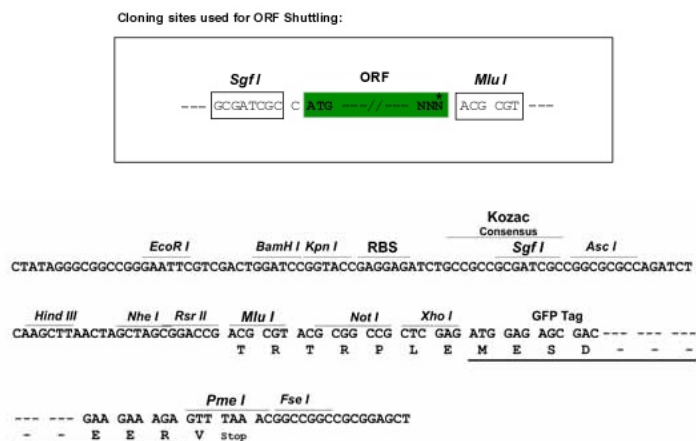
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

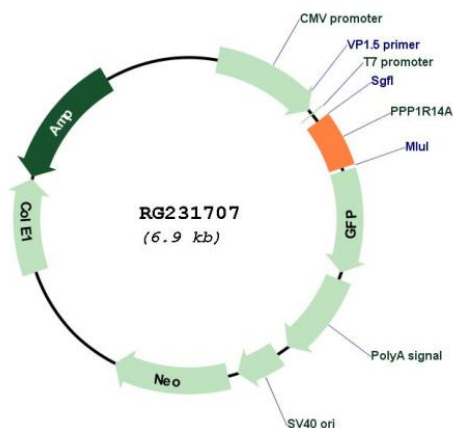


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Cloning Scheme:



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:	NM_001243947.2
RefSeq Size:	701 bp
RefSeq ORF:	363 bp
Locus ID:	94274
UniProt ID:	Q96A00
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Vascular smooth muscle contraction
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]