

## Product datasheet for MR200995

### PPP1R14A (NM\_026731) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ppp1r14a (NM\_026731) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ppp1r14a  
**Synonyms:** 1110001M11Rik; Cpi17  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200995 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCGCAGCGGCTGGGCAAGCGCGTGTGAGCAAGCTGCAGTCCCCGTGCGGGCCCGGGCCCGG  
 GGGGCAGCCCCAGCGGGCTGCAGAAGCGGCACGCGGAGTCACGGTCAAGTACGACCGACGGGAGCTGCA  
 GCGACGGCTGGACGTGGAGAAGTGGATCGACGGATGCTTGGAGGAGCTGTACCGCGGCAGGGAGTCAGAC  
 ATGCCGGACGAGGTCAACATCGATGAGCTATTGGAATTGGACAGTGAAGAGGAAAGATGCCGAAAAATCC  
 AGGGACTTCTGGAGGCTTGTGCAAATCCCACAGAGGACTTCGTCCAGGAGCTACTGGCCAAGCTTCGGGG  
 CCTGCACAAACAGCCGGGCTTCCCGCAGCCAGCCCTCAGATGACCCAGCCTGAGCCCCGCCAGGAC  
 CGGGCCACACTGCCCCACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200995 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAQRLLGKRVLSKLSQSPSRARGPGGSPSLQKRHRVTVKYDRRELQRRLDVEKWIDGCLEELYRGRES  
 MPDEVNIDELLELDSEEEERCKIQGLLEACANPTEDFVQELLAKLRGLHKQPGFPQSPSPDDPSLSPRQD  
 RAHTAPP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



ACCN: NM\_026731

ORF Size: 444 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\\_026731.3](#), [NP\\_081007.2](#)

RefSeq Size: 531 bp

RefSeq ORF: 444 bp

Locus ID: 68458

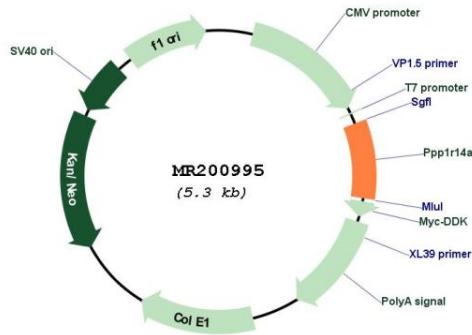
UniProt ID: [Q91VC7](#)

**Cytogenetics:** 7 B1

**MW:** 16.6 kDa

**Gene Summary:** Inhibitor of PPP1CA. Has over 1000-fold higher inhibitory activity when phosphorylated, creating a molecular switch for regulating the phosphorylation status of PPP1CA substrates and smooth muscle contraction (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR200995