

## **Product datasheet for RC200280**

## Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

## IPP 2 (PPP1R2) (NM 006241) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: IPP 2 (PPP1R2) (NM\_006241) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: IPP 2

Synonyms: IPP-2; IPP2; PPP1R2A

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC200280 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATCAAATCAAGGATCTACTCCAAGTGACCAACAGCAAAACAAATTACGAAGTTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200280 protein sequence

Red=Cloning site Green=Tags(s)

MAASTASHRPIKGILKNKTSTTSSMVASAEQPRGNVDEELSKKSQKWDEMNILATYHPADKDYGLMKIDE PSTPYHSMMGDDEDACSDTEATEAMAPDILARKLAAAEGLEPKYRIQEQESSGEEDSDLSPEEREKKRQF EMKRKLHYNEGLNIKLARQLISKDLHDDDEDEEMLETADGESMNTEESNQGSTPSDQQQNKLRSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



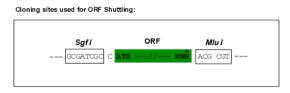


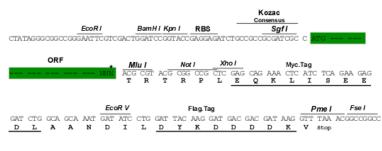
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6075">https://cdn.origene.com/chromatograms/mk6075</a> g07.zip

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_006241

ORF Size: 615 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 006241.8

RefSeq Size: 3468 bp
RefSeq ORF: 618 bp
Locus ID: 5504



UniProt ID: P41236

Cytogenetics: 3q29

Domains: IPP-2

**Protein Families:** Druggable Genome

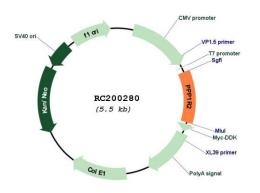
MW: 23 kDa

**Gene Summary:** Protein phosphatase-1 (PP1) is one of the main eukaryotic serine/threonine phosphatases.

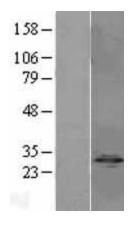
The protein encoded by this gene binds to the catalytic subunit of PP1, strongly inhibiting its activity. Ten related pseudogenes have been found throughout the human genome. Several splice variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Oct 2015]

## **Product images:**

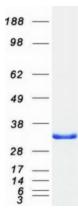


Circular map for RC200280



Western blot validation of overexpression lysate (Cat# [LY401878]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200280 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified PPP1R2 protein (Cat# [TP300280]). The protein was produced from HEK293T cells transfected with PPP1R2 cDNA clone (Cat# RC200280) using MegaTran 2.0 (Cat# [TT210002]).