

Product datasheet for RC236562

IPP 2 (PPP1R2) (NM_001291504) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IPP 2 (PPP1R2) (NM_001291504) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PPP1R2
Synonyms: IPP-2; IPP2; PPP1R2A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236562 representing NM_001291504
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGGCCTCGACGGCCTCGCACGGCCCATCAAGGGGATCTTGAAGAACAAGACCTCTACGACTTCCT
 CTATGGTGGCGTCGGCCGAACAGCCCCGCGGAATGTCGACGAGGAGCTGAGCAAAAATCCCAGAAGTG
 GGATGAAATGAACATCTTGGCGACGTATCATCCAGCAGACAAAGACTATGGTTTAAATGAAAATAGATGAA
 CCAAGCACTCCTTACCATAGTATGATGGGGATGATGAAGATGCCTGTAGTGACACCGAGGCCACTGAAG
 CCATGGCGCCAGACATCTTAGCCAGGAAATTAGCTGCAGCTGAAGGCTTGAGCCAAAGTATCGGATTCA
 GGAACAAGAAAGCAGTGGAGAGGAGGATAGTGACCTCTCACCTGAAGAACGAGGTAAAAAAGCGACAA
 TTTGAAATGAAAAGGAAGCTTCACTACAATGAAGGACTCAATATCAAAGTACGAGACAATTAATTTCAA
 AAGACCTACATGATGATGATGAAGATGAAGAAATGTTAGAGACTGCAGATGGAGAAAGCATGAATACGGA
 AGAATCAAATCAAGGATCTACTCAAGTGACCAACAGCAAACAATACGAAGTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236562 representing NM_001291504
 Red=Cloning site Green=Tags(s)

MAASTASHRPIKILKNKTSTSSMVASAEQPRGNVDEELSKKSQKWDEMNILATYHPADKDYGLMKIDE
 PSTPYHSMGDDDEDACSDTEATEAMAPDILARKLAAAEGLEPKYRIQEQESSGEEDSDL SPEERGKKRQ
 FEMKRKLHYNEGLNIKLRQLISKDLHDDDEDEEMLETADGESMNTTESNQGSTPSDQQNKLRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

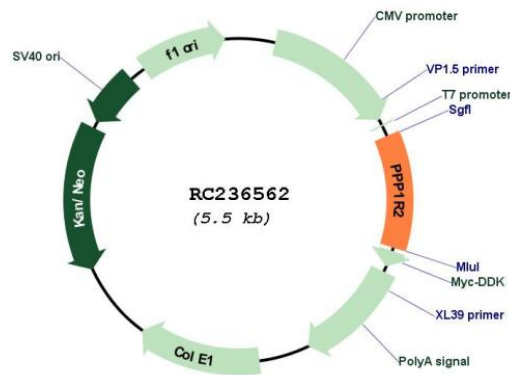


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001291504

ORF Size: 618 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_001291504.2](#)

RefSeq Size: 3471 bp

RefSeq ORF: 621 bp

Locus ID: 5504

Cytogenetics: 3q29

Protein Families: Druggable Genome

MW: 23.5 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]