

Product datasheet for **RG200280**

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: TurboGFP
Symbol: IPP 2
Synonyms: IPP-2; IPP2; PPP1R2A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200280 representing NM_006241
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCGACGGCCTCGCACCGGCCATCAAGGGGATCTTGAAGAACAAGACCTCTACGACTTCT
CTATGGTGGCGTCGCGCCGAACAGCCCCGCGGAATGTCGACGAGGAGCTGAGCAAAAATCCCAGAAGTG
GGATGAAATGAACATCTGGCGACGTATCATCCAGCAGACAAAGACTATGGTTAATGAAAATAGATGAA
CCAAGCACTCCTTACCATAGTATGATGGGGATGATGAAGATGCCTGTAGTGACACCGAGGCCACTGAAG
CCATGGCGCCAGACATCTTAGCCAGGAAATTAGCTGCAGCTGAAGGCTTGAGCCAAAGTATCGGATTCA
GGAACAAGAAAGCAGTGGAGAGGAGGATAGTGACCTCTCACCTGAAGAACGAGAAAAAAGCGACAATTT
GAAATGAAAAGGAAGCTTCACTACAATGAAGACTCAATATCAAAGTACGAGACAATTAATTTCAAAG
ACCTACATGATGATGATGAAGATGAAGAAATGTTAGAGACTGCAGATGGAGAAAGCATGAATACGGAAAGA
ATCAAATCAAGGATCTACTCCAAGTGACCAACAGCAAAACAAATTACGAAGTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200280 representing NM_006241
Red=Cloning site Green=Tags(s)

MAASTASHRPIKILKNKTSTTSSMVASAEQPRGNVDEELSKKSQKWDEMNILATYHPADKDYGLMKIDE
PSTPYHSMGDDDEDACSDTEATEAMAPDILARKLAAAEGLEPKYRIQEQESSGEEDSDLSPEREKKRQF
EMKRKLHYNELNIKLRQLISKDLHDDDEDEEMLETADGESMNTESNQGSTPSDQQNKLRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


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: 3346 bp

RefSeq ORF: 618 bp

Locus ID: 5504

UniProt ID: [P41236](#)

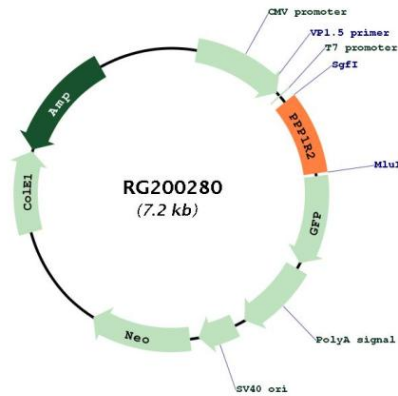
Cytogenetics: 3q29

Domains: IPP-2

Protein Families: Druggable Genome

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 RG200280