

Product datasheet for **SC116238**

IPP 2 (PPP1R2) (NM_006241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IPP 2 (PPP1R2) (NM_006241) Human Untagged Clone
Tag:	Tag Free
Symbol:	IPP 2
Synonyms:	IPP-2; IPP2; PPP1R2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116238 sequence for NM_006241 edited (data generated by NextGen Sequencing) ATGGCGGCCTCGACGGCCTCGCACCGGCCCATCAAGGGATCTTGAAGAACAAGACCTCT ACGACTTCCTCTATGGTGGCGTCGGCCGAACAGCCCCGCGGAATGTCGACGAGGAGCTG AGCAAAAATCCCAGAAGTGGGATGAAATGAACATCTTGGCGACGTATCATCCAGCAGAC AAAGACTATGGTTTAATGAAAATAGATGAACCAAGCACTCCTTACCATAGTATGATGGGG GATGATGAAGATGCCTGTAGTGACACCGAGGCCACTGAAGCCATGGCGCCAGACATCTTA GCCAGGAAATTAGCTGCAGCTGAAGGCTTGGAGCCAAAGTATCGGATTCAGGAACAAGAA AGCAGTGGAGAGGAGGATAGTGACCTCTCACCTGAAGAACGAGAAAAAAGCGACAATTT GAAATGAAAAGGAAGCTTCACTACAATGAAGGACTCAATATCAAAGTACGACAGACAATTA ATTTCAAAGACCTACATGATGATGATGAAGATGAAGAAATGTTAGAGACTGCAGATGGA GAAAGCATGAATACGGAAGAATCAAATCAAGGATCTACTCCAAGTGACCAACAGCAAAAC AAATTACGAAGTTCATAG Clone variation with respect to NM_006241.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006241 unedited
 CAGAATTTTGTAAACGACTCACTTATAGGGCGGCCGCGATTTCGGCACGAGGGTTTCGGCG
 TTGGCTCTGGCGTCGGGGTCTGTTGTGTCGTGACAAACCGCTGCGGTAGCCGTTTCCGAGGC
 AGCAGTTGCGGCCGCTTTAGCCCTGAGCGGGATCTGCGGCTGCCTGCGAGTCTCTGCTGT
 GCCGACCTTCTCTTCGCGGACCCACGCCAAGCAGCGACCCTGAGCCGACAGCCGGAGC
 GCCCGCAATGGCGGCCCTCGACGGCCTCGCACC GGCCCATCAAGGGGATCTTGAAGAACA
 AGACCTCTACGACTTCTCTATGGTGGCGTCGGCCGAACAGCCCCGCGGGGAAATGTCGACG
 AGGAGCTGAGCAAAAAATCCAGAAGTGGGATGAAATGAACATCTTGGCGACGTATCATC
 CAGCAGACAAAGACTATGGTTTAAATGAAAAATAGATGAACCAAGCACTCCTTACCATAGTA
 TGATGGGGGATGATGAAGATGCCTGTAGTGACACCGAGGCCACTGAAGCCATGGCGCCAG
 ACATCTTAGCCAGGAAATTAGCTGCAGCTGAAGGCTTGGAGCCAAAGTATCGGATTCAGG
 AACAAANAGCAGTGGAGAGGAGGATAGTGACCTCTCACCTGAAGAACGAGAAAAAAAAG
 CGACATTTGAAATGAAAAGGAAGCTTCACTACAATGAAGGACTCAATATCAAAGTACCA
 GACATTAATTTCAAAGACCTCATGATGATGATGAAGATGAAGAAATGGTANAGACTGCAG
 ATGGAGAAAGCATGAATACGGNAGAATCAAATCAAGGATCTACTCCAAGTGACCAACAGC
 ANNNACATTTACGAAGNTCATAGACCGAGATTTGNTCACACTGNCAAATGTTGNTAGAGT
 AAAACCTGGACTATAGTACCGTCTTACTGGTCTTACAATCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006241 unedited
 CGCCCCTANAGNATACGAGTTAAATTCCTTTTTTTTTTTGGCATATTATTGTATTTTATT
 ACAGTACGTGTAGTGATACTATACTGGAAGGGGAAAAATGTAAACAAAACCAAAGTCA
 TGGGAAAAATGGCATCTTGCTTTAATCTTCAACTGAAAGTTACCTTAACAATCCATTTAC
 ACCATTATGTCAAATTTAGTCATCTCTGCTTATTTTTAGACAAATGAAAACAGACAAGG
 TAACACCAAATAGTTAAGCACAGAAAGTGATACTGATTAAGAAAGTTGAAAGTAAATCTA
 CCTTGGCTAGAACTGAACATTCAGATCTGTCTCTCCAGAGGAAAAATCTAACTTGAATCAT
 AATGGTTCATATTTGACTAGTTCATACCTATCAATTACCTACTTATGACTTGAACATA
 CCTTTTCTCAGCTGCATGTGACAGCCTAAAACCCCACTGAGCATGCTGCTTGGCATGCCT
 TACTCCTCTGAAATCATCATCTACTTTCTAAAAACAGAAAAATGAGTTTGGCATTTAAAT
 TTCAAAAAATAGTTTGCAGAAAAACAAAAAGAATCAACTGTTTTAAAGTCTTATCCTTTT
 CTTCACTCTATGACAGCTACTTCTACAAAAAAGAGTATGTGGGACTTTCTAA
 GACTCAGAACAAAGAAACCAAATCAGAGGTGCATGATATATGTGCCGCACATGTACAGACT
 TAATCTCTACATCCCCAAGACAGATTTAAACAGGGGTATCCCACATTTAAATTCAGATA
 CAGAGACAACAGTTTTTGTCTAAATCANGGGATTTCTAGCTGAATGTTAAATACTGACTA
 CAGTTCCAGGACTCTGATATTATCTCATTCAAATCAAATAATGGCCCTCCCTCTACAA
 CAGGATTTCCACTTTTATTATTTCAAAGTGCCTTCCATACCTGCAGGGGAGAAACCCG
 TCCATAAACCTTCTCCATATGAATTATT

Restriction Sites:

NotI-NotI

ACCN:

NM_006241

Insert Size:

3270 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_006241.3](#), [NP_006232.1](#)

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.