

Product datasheet for **SC115900**

Protein phosphatase inhibitor 1 (PPP1R1A) (NM_006741) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein phosphatase inhibitor 1 (PPP1R1A) (NM_006741) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protein phosphatase inhibitor 1
Synonyms:	I1; IPP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115900 sequence for NM_006741 edited (data generated by NextGen Sequencing)

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ATGGAGCAAGACAACAGCCCCGAAAGATCCAGTTCACGGTCCCCTGCTGGAGCCGCAC  
CTTGACCCCGAGGCGCGGAGCAGATTCGGAGGCGCCGCCACCCCTGCCACCCCTCGTG  
CTGACCAGTGACCAGTCATCCCCAGAGATAGATGAAGACCGGATCCCAACCCACATCTC  
AAGTCCACTTTGGCAATGTCTCCACGGCAACGGAAGAAGATGACAAGGATCACACCCACA  
ATGAAAGAGCTCCAGATGATGGTTGAACATCACCTGGGGCAACAGCAGCAAGGAGAGGAA  
CCTGAGGGGGCCGCTGAGAGCACAGGAACCCAGGAGTCCCGCCACCTGGGATCCCAGAC  
ACAGAAGTGGAGTCAAGGCTGGGCACCTCTGGGACAGCAAAAAAAGTGCAGAATGCATC  
CCTAAAAGTACAGAGAGGCGAGTAAGGAACCCAGCACAAAAGAACCCCTCAACCCATATA  
CCACCACTGGATTCCAAGGGAGCCAACCTCGGTCTGA
```

Clone variation with respect to NM_006741.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006741 unedited
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGGCA
 CGAGGGCGCAGAGTCCCCGGAGCCGCGAGCTGGGAGCGCTGTGCCGGGAGCCGGGAGCCG
 AGCGCGCCGGGCTGGGGCCGGGGCCGGAGCGGAGCGGAGAGGGAGCGCGCCCGCCCCAGC
 CCCGAGTCCCGCCGCCTCCCTCCCGCCGACGCGGGCCACCAGCCGCGCCCGCCCCAGCC
 ATGGAGCAAGACAACAGCCCCGAAAGATCCAGTTCACGGTCCCCTGCTGGAGCCGCAC
 CTTGACCCCGAGGCGCGGAGCAGATTTCGGAGGCGCCGCCACCCTGCCACCCTCGTG
 CTGACCAGTGACCAGTCATCCCCAGAGATAGATGAAGACCGGATCCCCAACCCACATCTC
 AAGTCCACTTTGGCAATGTCTCCACGGCAACGGAAGAAGATGACAAGGATCACACCCACA
 ATGAAAGAGCTCCAGATGATGGTTGAACATCACCTGGGGCAACAGCAGCAAGGAGAGGAA
 CCTGAGGGGGCCGCTGAGAGCACAGGAACCCAGGAGTCCCGCCCACCTGNGATCCAGAC
 ACAGAAGTGGAGTCAAGGCTGGGCACCTCTGGGACAGCAAAAAAACTGCAGAATGCATC
 CCTAAAACCTCACGAGAGAGGCAGTAAGGAACCCAGCACANAAGAACCCTCAACCCATATA
 CCACCACTGGATTCCAAGGGAGCCAACTCGGTCTGAGAGAGGAGGGAGTATCTTGGGATC
 AAGACTGCAGTTTGGGAATGCATGGACACCGNATTTGNTCTTATTCCTTCACTNNTGGGG
 AANAATCTCTGGTTNTAAAAGTGATAAAATTTGGNTGGTAGGTCAAAAAAAAAAAAAAACT
 CGACTTAGATTGCGGCCGCGGTATAGCTGGTCTGAACAGANCCGGGTGGCATCCCTG
 GGCCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006741 unedited
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACCTAACACCAAATTT
 ATCACTTTTTAAAAACAAGAGATTTTCCCAAAAGTGAAGGAATAAGAAACAAATCCGGT
 GTCATGCATTCCAAACTGCAGTCTTGATCCCAAGATACCTCCTCTCTCAGACCGA
 GTTGGCTCCCTTGAATCCAGTGGTGGTATATGGGTTGAGGGTTCTTTTGTGCTGGGTTC
 CTTACTGCCTCTCTCGTGAGTTTTAGGGATGCATTCTGCAGTTTTTTTTGCTGTCCAGA
 GGTGCCAGCCTTGACTCCACTTCTGTGTCTGGGATCCCAGGTGGGCGGGACTCCTGGGT
 TCCTGTGCTCTCAGCGGCCCCCTCAGGTTCCCTCCTTGTGCTGTTGCCCCAGGTGATG
 TTCAACCATCATCTGGAGCTCTTTCATTGTGGGTGTGATCCTTGTATCTTCCGTTG
 CCGTGGAGACATTGCCAAAGTGGACTTGAGATGTGGGTTGGGGATCCGGTCTTATCTAT
 CTCTGGGGATGACTGGTCACTGGTCANACCAGGTTGGCAGGGGTGGGGCGGCCCTCC
 GAAACTGCTCCGCCCTCGGGGTCAAAGTGCGGCTCCCCAGCGGGACCGGGAAGTGGAA
 TCCTTTCGGGGCTGTNGTCTGCTCCAGGCTGGGGCGGCGCCGGTGGGGCCCCGCTT
 GCGCGGGAGGAAAGCCCGGACCTCGGGCTTGGGCGGGGCCCTAACCTTTCGTCCC
 GTCTCGAAACCGATCCAAAACGGCGGCCCTGGCATACCGGTTCCCGAACAGATGCGCCAC
 CCCCAGCTCCGGGGCCCTGCCGCCCGGCCATAATGTAGCAGGCCAGGGCCCAAACCG
 GCCGCGACTTACGGACGGAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_006741

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:	<ol style="list-style-type: none">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_006741.2 , NP_006732.2
RefSeq Size:	1839 bp
RefSeq ORF:	516 bp
Locus ID:	5502
UniProt ID:	Q13522
Cytogenetics:	12q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Long-term potentiation
Gene Summary:	Inhibitor of protein-phosphatase 1. This protein may be important in hormonal control of glycogen metabolism. Hormones that elevate intracellular cAMP increase I-1 activity in many tissues. I-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. Following a rise in intracellular calcium, I-1 is inactivated by calcineurin (or PP2B). Does not inhibit type-2 phosphatases.[UniProtKB/Swiss-Prot Function]