

Product datasheet for **SC205017**

PPP1A (PPP1CA) (NM_002708) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: PPP1A (PPP1CA) (NM_002708) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: PPP1CA
Synonyms: PP-1A; PP1A; PP1alpha; PPP1A
ACCN: NM_002708
Insert Size: 382 bp
Insert Sequence: >SC205017 3'UTR clone of NM_002708

The sequence shown below is from the reference sequence of NM_002708. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCCCGCAATTCGCCAAAGCCAAGAAAATAGCCCCCGCACACCACCTGTGCCCCAGATGATGGATTGAT
TGACAGAAATCATGCTGCCATGCTGGGGGGGGTACCCCGACCCCTCAGGCCACCTGTCACGGGGA
ACATGGAGCCTTGGTGTATTTTTCTTTTCTTTTTTAATGAATCAATAGCAGCGTCCAGTCCCCCAGGG
CTGCTTCTGCCTGCACCTGCGGTGACTGTGAGCAGGATCCTGGGCGCAGGCTGCAGCTCAGGGCAAC
GGCAGGCCAGGTCTGGGTCTCCAGCCGTGCTTGGCCTCAGGGCTGGCAGCCGGATCCTGGGGCAACCC
ATCTGGTCTCTTGAATAAAGGTCAAAGCTGGATTCTC
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_002708.4](#)



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Summary:

The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). This broadly expressed gene encodes the alpha subunit of the PP1 complex that associates with over 200 regulatory proteins to form holoenzymes which dephosphorylate their biological targets with high specificity. PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies suggest that PP1 is an important regulator of cardiac function and that PP1 deregulation is implicated in diabetes and multiple types of cancer. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2020]

Locus ID:

5499

MW:

13.5