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# Product datasheet for SC205397

## PPP4C (NM_002720) Human 3' UTR Clone

### Product data:

| | |
|---|---|
| **Product Type:** | 3' UTR Clones |
| **Product Name:** | PPP4C (NM_002720) Human 3' UTR Clone |
| **Vector:** | pMirTarget (PS100062) |
| **Symbol:** | PPP4C |
| **Synonyms:** | PP-X; PP4; PP4C; PPH3; PPP4; PPX |
| **ACCN:** | NM_002720 |
| **Insert Size:** | 344 bp |
| **Insert Sequence:** | >SC205397 3'UTR clone of NM_002720<br>The sequence shown below is from the reference sequence of NM_002720. The complete sequence of this clone may contain minor differences, such as SNPs.<br>Blue=Stop Codon Red=Cloning site<br><br>GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG<br>TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC<br>AAGAAGCCCGTGGCCGACTACTTCCTGTGACCCCGCCCGGCCCCTGCCCCCTCCAACCCTTCTGGCCCT<br>CGCACCACTGTGACTCTGCCATCTTCCTCAGACGGAGGCTGGGCGTGGGGGGGGCTGTCCTGGCTCTGC<br>TGTCCCCCAAGAGGGTGCTTCGAGGGTGAGGACTTCTCTGGAGAGGCCTGGAGACCTAGCTCCATGTTC<br>CTCCTCCTCTCTCCCCACTTGAACCATGAAGTTTCCAATAATTTTTTTTTCTTTTTTTCCTTCTTTTTT<br>CTGTTTGTTTTTAGATAAAAATTTTGAGAAAAAAAAATGAAAAAATTCTAATAAAAGAAGAAAAATGGT<br>ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA<br>CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG |
| **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_002720.3 |

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**Summary:** Protein phosphatase that is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on Ser-140 (gamma-H2AFX) generated during DNA replication and required for DNA double strand break repair. Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase (By similarity). In response to DNA damage, catalyzes RPA2 dephosphorylation, an essential step for DNA repair since it allows the efficient RPA2-mediated recruitment of RAD51 to chromatin. [UniProtKB/Swiss-Prot Function]

**Locus ID:** 5531

**MW:** 13.1