

## Product datasheet for **SC111672**

### PPM1B (NM\_002706) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PPM1B (NM_002706) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | PPM1B   |
| Synonyms:                 | PP2C-beta; PP2C-beta-X; PP2CB; PP2CBETA; PPC2BETAX  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_002706, the custom clone sequence may differ by one or more nucleotides |

```
ATGGGTGCATTTTTGGATAAACCCAAAACCTGAAAAACATAATGCTCATGGTGTCTGGGAATGGTTACGTT
ATGGCCTGAGCAGCATGCAAGGATGGAGAGTGGAAATGGAAGATGCACACACAGCTGTTGTAGGTATTCC
TCACGGCTTGAAGACTGGTCATTTTTTGCAGTTTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
TGCTCAACACATTTATTAGAACACATCACTACTAACGAAGACTTTAGGGCAGCTGGAAAAATCAGGATCTG
CTCTTGAGCTTTCAGTGGAAAAATGTTAAGAATGGTATCAGAACTGGATTTTTGAAAATTGATGAATACAT
GCGTAACTTTTCAGACCTCAGAAACGGGATGGACAGGAGTGGTCACTGCAGTGGGAGTTATGATTTCAC
CCTAAGCATATCTACTTTATCAACTGTGGTGATTACGTGCTGTTCTGTATAGGAATGGACAAGTCTGCT
TTTCTACCCAGGATCACAAACCTTGCAATCCAAGGAAAAGGAGCGAATCCAAAATGCAGGAGGCAGCGT
GATGATACAACGTGTTAATGGTTCATTAGCAGTATCTCGTGTCTGTTGGGGACTATGATTACAAGTGTGT
GATGGCAAGGGCCCAACAGAACAACCTGTTTCTCCAGAGCCTGAGGTTTATGAAATTTAAGAGCAGAAG
AGGATGAATTTATCATCTTGGCTTGTGATGGGATCTGGGATGTTATGAGTAATGAGGAGCTCTGTGAATA
TGTTAAATCTAGGCTTGAGGTATCTGATGACCTGGAAAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
CACAAGGGAAGTCGAGATAACATGAGTATTGTAAGTACTAGTTTGTCTTTCAAATGCTCCCAAGGTCTCAGATG
AAGCGGTGAAAAAAGATTGAGTGGATAAGCACTTGGAAATCACGGGTGAAGAGATTATGGAGAAGTC
TGCCGAGGAAGGAATGCCTGATCTTGCCCATGTCATGCGCATCTGTCTGCAGAAAAATCCCAAATTTG
CCTCCTGGGGGAGGTCTTGCTGGCAAGCGTAATGTTATTGAAGCTGTTTATAGTAGACTGAATCCACATA
GAGAAAAGTGATGGGGCCTCCGATGAAGCAGAGGAAAGTGGATCACAGGGAAAATGGTGGAAAGCTCTCAG
GCAAAATGAGAATTAATCATAGGGGAAAACCTACCACAACCTCTGGAGGAGATGCTGACTAGTTACAGGCTA
GCTAAAGTAGAGGGAGAAGAAAGCCCTGCTGAACCAGCTGCCACAGCTACTTCTCGAACAGTGTGCTG
GAAACCCAGTGACAATGCAGGAAAGCCATACTGAATCAGAAAGTGGTCTTGCTGAATTAGACAGCTCTAA
TGAAGATGCAGGGACAAAGATGAGTGGTGAATAATGA
```



[View online »](#)

|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_002706 unedited<br>ACTATAGGGGCGGCCGCGATTTCGGCACGAGGCGGCCGAATCGGCAACGGCGCTAGGGTGG<br>AGAGAAGCGGCAGCGGCGGGCGGGCGGCGGTGAGGGGCGGGCGGTGTAACAGCCCCG<br>GAGGCGGCGGAGGCGGGCGGTGAGACCCCGAGGGGGAAGCGGGCGGTGAGTCAGGGTCGC<br>GCCTCCGTTGAAACTTGGGCTGAGTACCGCGGGCGGCGAGCGAGGCGCCCTAGACAT<br>CTTCTCCCTCCCTTGCCTCAGATTTATTGCTAACATGGGTGCATTTTTGGATAAACCCA<br>AAACTGAAAAACATAATGCTCATGGTGTGGGAATGGTTTACGTTATGGCCTGAGCAGCA<br>TGCAAGGATGGAGAGTGGAAATGGAAGATGCACACACAGCTGTTGTAGGTATTCCTCACG<br>GCTTGGAAAGACTGGTCATTTTTTGCAGTTTATGATGGTCATGCTGGATCCCGAGTGGCAA<br>ATTACTGCTCAACACATTTATTAGAACACATCACTACTAACGAAGACTTTAGGGCAGCTG<br>GAAAATCAGGATCTGCTTTGAGCTTTTCACTGGAATGTTAAGAATGGTATCAGAACTG<br>GATTTTTGAAAATTGATGAATACATGCGTAACTTTTTCAGACCTCAGAAACGGGATGGACA<br>GGAGTGGTTCACTGCAGTGGGAGTTATGATTTTACCTAAGCATATCTACTTTTCACT<br>GTGGTGATTCACGTGCTGGTCTGTATANGAATGGGACAGTCTGCTTTTCTACCCAGGATC<br>ACAAACCTTTGCATCCAGGGAAAGGAGCGAATCAAATGCAGGAGGCAGCGTGATGATA<br>CCACGTGTTAATGGTTCATTAGCAGTATCTCGTCTCTGGGGN |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_002706   |
| <b>Insert Size:</b>                 | 6000 bp   |
| <b>OTI Disclaimer:</b>              | 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).  |
| <b>Components:</b>                  | 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).  |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>RefSeq:</b>                      | <a href="#">NM_002706.3</a> , <a href="#">NP_002697.1</a>   |
| <b>RefSeq Size:</b>                 | 2605 bp   |
| <b>RefSeq ORF:</b>                  | 1440 bp   |
| <b>Locus ID:</b>                    | 5495  |
| <b>UniProt ID:</b>                  | <a href="#">O75688</a>  |
| <b>Cytogenetics:</b>                | 2p21  |
| <b>Domains:</b>                     | PP2C  |
| <b>Protein Families:</b>            | Druggable Genome, Phosphatase, Stem cell - Pluripotency   |
| <b>Protein Pathways:</b>            | MAPK signaling pathway  |

**Gene Summary:**

The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase has been shown to dephosphorylate cyclin-dependent kinases (CDKs), and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to cause cell-growth arrest or cell death. Alternative splicing results in multiple transcript variants encoding different isoforms. Additional transcript variants have been described, but currently do not represent full-length sequences. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longest isoform (1).