

## Product datasheet for **SC126605**

### PPM1G (NM\_177983) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | PPM1G (NM_177983) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | PPM1G                                  |
| Synonyms:                 | PP2CG; PP2CGAMMA; PPP2CG               |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_177983, the custom clone sequence may differ by one or more nucleotides

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ATGGGTGCCTACCTCTCCAGCCCAACACGGTGAAGTCTCCGGGACGGGGTCCGGCCCCCGCCTGC
CGTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCGTCTCCATGGAGGATGCTCACAAGTGTATTCC
TGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGATGGACATGGAGGGGAGGAAGTTGCCTTGATC
TGTGCCAAATATCTTCTGATATCATCAAAGATCAGAAGGCCATAAGGAAGGCAAGCTACAGAAGGCTT
TAGAAGATGCCTTCTTGCTATTGACGCCAAATGACCACTGAAGAAGTCATTAAGAGCTGGCACAGAT
TGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATGTGGACAATGAG
GAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTACGGGCAGAACT
GTCACAAGGGCCCTCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAACCAGGGTCCCAGGGCCTCAA
TGGGGAGGCAGGACCTGAGGACTCAACTAGGGAACTCCTTCACAAGAAAATGGCCCCACAGCCAAGGCC
TACACAGGCTTTTCTCCAAGCTCGAACGTGGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCA
CTGGTGAGGCTGGGCCTTCTGCTCTTACGCTCTGACAAGCTGCCTCGATTGCTAAGTCCAAGTTCTT
TGAGGACAGTGAGGATGAGTCAGATGAGGCGGAGGAAGAAGAGGAAGACAGTGGGAATGCAGCGAGGAA
GAGGATGGCTACAGCAGTGGAGGCGAGAGAATGAGGAAGATGAGGATGACACCGAGGAGGCTGAAGAGG
ACGATGAAGAAGAAGAAGAAGAGATGATGGTGCCAGGGATGGAAGGCAAAGAGGAGCCTGGCTCTGACAG
TGGTACAACAGCGGTGGTGGCCCTGATACGAGGGAAGCAGTTGATTGTAGCCAACGCAGGAGACTCTCGC
TGTGTGGTATCTGAGGCTGGCAAAGCTTAGACATGTCCTATGATCACAACAGAGGATGAAGTAGAAC
TAGCACGCATCAAGAATGCTGGTGGCAAGTACCATGGATGGGCGAGTCAACGGGGCCCTAACCTCTC
CAGAGCCATTGGGACCCTTCTATAAGAGAAAACAAGAACCTGCCACCTGAGGAACAGATGATTTACGCC
CTTCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGGTCAATTGCTGATGGCATCT
GGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTCAATCAATCAAGATCAGCCAGCGTGTGAAAATGG
GGAGCTTCGGTTATTGTATCCATTGTGGAAGAGCTGCTGGATCAGTGCCTGGCACCAGACACTTCTGGG
GATGGTACAGGCTGTGACAACATGACCTGCATCATTTTGTCTCAAGCCCCGAAACACAGCAGAGCTCC
AGCCAGAGAGTGGCAAGCGAAAAGTAGAGGAGGTGCTCTACTGAGGGGGCTGAAGAAAATGGCAACAG
CGACAAGAAGAAGAAGGCCAAGCGAGACTAG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_177983 unedited

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GGATTTGTACACGACTACTATAGGCGGCCGCAATTCGCACGAGGCTGCACCTGAGG
CCGCCGGCCAGCCGCCGCATGGGTGCCTACCTCTCCAGCCCAACACGGTGAAGTGCTC
CGGGGACGGGGTCCGGCCCCCGCCTGCCGCTGCCCTACGGCTTCTCCGCCATGCAAGG
CTGGCGCGTCTCCATGGAGGATGCTCACAAGTGTATTCTGAGCTGGACAGTGAGACAGC
CATGTTTTCTGTCTACGATGGACATGGAGGGGAGGAAGTTGCCTTGACTGTGCCAATA
TCTTCTGATATCATCAAAGATCAGAAGGCCATAAGGAAGGCAAGCTACAGAAGGCTTT
AGAAGATGCCTTCTTGGCTATTGACGCCAAATGACCACTGAAGAAGTCATTAAGAGCT
GGCACAGATTGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGA
AGATGATGTGGACAATGAGGAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGA
AGAGCTGCTGACACGCTACGGGCAGAACTGTCACAAGGGGCCCTCCACAGCAAATCTG
GAGGTGGGACAGGCGAGGAACCAGGGTCCCAGGGCCTCAATGGGAGGCAGGACCCTGAG
ACTCAACTAGGAACTCCTTCCAAGAAAATGGCCCCACAGCCAAGGCCCTACACAGGCTT
TTCTCCAAGTNGAAACGTGGGACTGAGGCANNGCCAAGTGGTGAGCCTGGCATTCCCA
CTGGTGAGGCTGGGCCTTCTGCTCTTACGCTCTNCAAGCTGCCTCGNAGTGCTAAGTC
CAGTTCTTTTGTGACAGTGGGGATGAGTCAAATGAGGCGGAGGAAGAA
    
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|                                     |  |
|-------------------------------------|--|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_177983 unedited<br/> AGCTTGTCCGCGGCCGCATTTTACGTCGAGTTTTTTTTTTTTTTTTTTTTTTTAGGCTTTG<br/> GCCTTTAGTCTGAAAAATGTTGATTGAAAGTGTACAACAGAGAGCGGGTGCAAGCGGCCG<br/> AGGGCCATGGAGCCGCAATAAAAAAGAATGTCCTTAAATAAAGTTCACAGAGTAAAAAC<br/> CAGAACCGCCAGTCCTTCCCTCAACACAACAGAGCACAGGCACAGAACCGGCGATGAGC<br/> CCGAGGAGCAGAGGCGGCTGGGAAGGACAGCAGAGGCTCCCGGCTGCAGTGTGGAGGGAG<br/> AGCCCTCTTTGGAATGGGCGGAGTGAAGCCACCCAGCTCCCCCTGCACACCTCATACCCA<br/> CTGCTAAGGCTAAAGGAAAAAGACAAAACACTCAGTCTCAGGTCCGGAGGGCTCAGAAAAACA<br/> GTCTAGGTGGGCAGGGGTCTGGATGACTGCTAGTCTCGCTTGGCCTTCTTCTTGTGCG<br/> CTGTTGCCATTTTCTTACGCCCCCTCAGTAGAGAGCACCTCTCTAGTTTTCGTTGCCA<br/> CTCTCTGGCTGGAGCTCTGCTGTGTTTCGGGGCCTTGAAGCACATGATGACGCAGGTCAT<br/> GTTTGTCCACCCTGTACATCCCAGCAGTGTCTGTTGCCAGGGACTGATTCCGCAGCTT<br/> TTCCACATGGATGACACTAACCCGAACCTCCCATTTTCATACCCTGTGACCCTTTG<br/> ATGAAGAAAATTACAATTCCTTGGCTGCTCAACACATTACAACCCTCACAGGCCCTGAC<br/> CCTGGAATTCAGGGCCGGCAGTCAAAGTCACCCCTTGGTCGCACGAAAAGGCTGAAAA<br/> CATTTAGTTCCCCAGGGCAAGGCTTTTGGTTTTCTTTACCAAACGGGCCCCCATAGG<br/> TTCTGGAAAAGGTGGGGCCCCGGTGATCTCCCCTCCCATGGGGACCCTGCCCN</p> |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_177983  |
| <b>Insert Size:</b>                 | 2190 bp  |
| <b>OTI Disclaimer:</b>              | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>   |
| <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_177983.1</a> , <a href="#">NP_817092.1</a>  |
| <b>RefSeq Size:</b>                 | 2265 bp  |

|                   |   |
|-------------------|---|
| RefSeq ORF:       | 1641 bp   |
| Locus ID:         | 5496  |
| UniProt ID:       | <u><a href="#">O15355</a></u>   |
| Cytogenetics:     | 2p23.3  |
| Protein Families: | Druggable Genome, Phosphatase   |
| Gene Summary:     | <p>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 is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome. Studies of a similar gene in mice suggested a role of this phosphatase in regulating cell cycle progression. [provided by RefSeq, Apr 2010]</p> |