

## Product datasheet for SC101902

### PPM1K (NM\_152542) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1K (NM_152542) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPM1K
Synonyms:	BDP; MSUDMV; PP2Ckappa; PP2Cm; PTMP; UG0882E07
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101902 sequence for NM_152542 edited (data generated by NextGen Sequencing)

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ATGTCAACAGCTGCCTTAATTACTTTGGTCAGAAGTGGTGGGAACCAGGTGAGAAGGAGA
GTGCTGCTAAGCTCCCGCCTGCTGCAGGACGACAGGCGGGTGACACCCAGTGCCACAGC
TCCACTTCAGAGCCTAGGTGTTCTCGGTTTGACCCAGATGGTAGTGGGAGTCCAGCTACC
TGGGACAATTTTGGGATCTGGGATAACCGCATTGATGAGCCAATTCTGCTGCCACCCAGC
ATTAAGTATGGCAAGCCAATTCCTAAAATCAGCTTGAAAATGTGGGGTGCCTCACAG
ATTGGCAAACGGAAAGAGAATGAAGATCGGTTTGACTTCGCTCAGCTGACAGATGAGGTC
CTGTACTTTGCAGTGTATGATGGACACGGTGGACCTGCAGCAGCTGATTTCTGTCATACC
CACATGGAGAAATGTATTATGGATTTGCTTCTAAGGAGAAGAACTTGAAAACCTGTTG
ACCTTGGCTTTTCTAGAAATAGATAAAGCCTTTTCGAGTCATGCCCGCCTGTCTGCTGAT
GCAACTCTTCTGACCTCTGGGACTACTGCAACAGTAGCCCTATTGCGAGATGGTATTGAA
CTGTTGTAGCCAGTGTGGGGACAGCCGGGCTATTTTGTGTAGAAAAGGAAAACCCATG
AAGCTGACCATTGACCATACTCCAGAAAGAAAAGATGAAAAGAAAAGGATCAAGAAATGT
GGTGGTTTTGTAGCTTGGAAATAGTTTGGGGCAGCCTCACGTAAATGGCAGGCTTGCAATG
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AAGAGGATTAAGTTACATCATGCTGATGACAGCTTCTGGTCTCACCACAGATGGAATT
AACTTCATGGTGAATAGTCAAGAGATTTGTGACTTTGTCAATCAGTGCCATGATCCCAAC
GAAGCAGCCCATGCGGTGACTGAACAGGCAATACAGTACGGTACTGAGGATAACAGTACT
GCAGTAGTAGTGCCTTTTGGTGCCTGGGAAAATATAAGAACTCTGAAATCAACTTCTCA
TTCAGCAGAAGCTTTGCCTCCAGTGGACGATGGGCCTGA

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Clone variation with respect to NM\_152542.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_152542 unedited  GGGTTCACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCCTCTCC  ATCTGGTCAACTGCGGGAGAAAAATTTTCGAGAATTTCCAGCAGGCAAGGCAGTGGCCGCT  TTGACTGCTTGCTTCGGAGATCCGAGACGACGGAGAAGGCACTCTATTTACCGACCAAG  AAAGCTCCTCCCCGCTCCTCCGTTAGCTAATTAACAATTTTTTCAGGGACGTAGCCATCC  AGAGACATTCCATTATTGTTCCATTGACCTTTCCCTCATCACTGAGTCCTTTGGAGCTGA  GTTATGTCAACAGCTGCCTTAATTAATTTGGTTCAGAAGTGGTGGGAACCCAGGTGAGAAGG  AGAGTGTGCTAAGCTCCCGCTGCTGCAGGACGACAGGCGGGTGACACCCACGTGCCAC  AGCTCCACTTCAGAGCCTAGGTGTTCTCGTGTGACCCAGATGGTAGTGGGAGTCCAGCT  ACCTGNGACAATTTGGGATCTGGGATAACCGCATTGATGAGCCAATTCTGCTGCCACCC  AGCATTAAAGTATGGCAAGCCAATCCCAAAATCAGCTTGGAAAATGTGGGGTGCAGCTCA  CAGATTGGCAAACGAAAGAGAATGAAGATCGTTTTGACTTCGCTCAGCTGACAGATGAA  GTCCTGTACTTTGCAGTGTATGATGGGACACGGTACCTGCAGCAGCTGATTTCTGTCAT  ACCCACATGGAGAAATGTATTATGGATTTGCTTCTAAGGAGAGAACTTGAAAACCTGT  GACCTTTGCTTTTCTAAAATAAGATAAGGCTTTTTGAGTAATGCCCCCTTTNCTGCTG  ATGCAACTTTTTGACCTTTGGGACTCCTGAAACATTGCCCTTTTGCAAAAGGNTTGA  ACTGTTTGTAAACCAGGTGGG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' genomic read for NM_152542 unedited  GTTCAACTATGNACCGCGGCACGCATTCTAGAATACGAGTTTTTTTTTTTTTTTTTTTGGG  TTTTTACTAAAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTTGAATCCTGACCTCA  GATGATCTACCCACCTTGGCCTCCCAAAGTCTGGGATTACAGGCATGAGCCACTGTGCC  TGCCCAAATTAATTTCTTTTGCATGGTTGCTTTCACCAGTAAGTGGTCCAGAATACAAA  TATGGTAACAGAGAACTGTTTTCACTATTTCCTTGGTACAGTTATTAATAAATAAAAAC  TCGCATTTTAAGATTAGGGAAGTCTGGAAAAAATTTTTTAAACTTGGAGATCACATAT  TGAATAGCTGTCAAAATTCAAACTGACTAGTTTTGAAGAACTTCAAAAACGTGTTCAAAAT  GAATAAAGAACAAAAATGATCAAAAGAAACCCATAGCTGCCTAAGAGTCTTAAAAATTAT  TAATGTGACACTCTCATCTCATCAAGTGTATCCAAACCACTTCTCATTTGCTCTTTCC  ATTTAAAGACTCACAGTAGCTTCACTACACATATTTTAACTGAACATGTACAGCGGAA  CATAAATATGATGAGCATTATGAAAAAACTACTATCTAAGTGGTTTACACTGACTTGTG  CGCTGATCTAGTGAGTTAGGAGACCTTTTTGATCTNATCAGTTTTCTTGACATGCTCAGT  AAAAACTGTTGCACANAACCTCTCAGTCCAGTGGGTATCAGGCCCTCGTCCACTGGA  GGCAAAACCTTCTGCTGAAATGAAAATTGATTTTAGAGTTCTTATATTTTCCCCAGGCAC  CAAAAGCACTACTACTGCAGTACTGTTTTCCCTAATACCGTACTGGATTGGCCGTTAATT  CACCGGTAGGGCTGT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_152542
<b>Insert Size:</b>	2250 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).

**Reconstitution Method:**

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\\_152542.2](#), [NP\\_689755.2](#)

**RefSeq Size:** 2103 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 152926

**UniProt ID:** [Q8N3J5](#)

**Cytogenetics:** 4q22.1

**Domains:** PP2C

**Protein Families:** Phosphatase

**Gene Summary:** This gene encodes a member of the PPM family of Mn<sup>2+</sup>/Mg<sup>2+</sup>-dependent protein phosphatases. The encoded protein, essential for cell survival and development, is targeted to the mitochondria where it plays a key role in regulation of the mitochondrial permeability transition pore. [provided by RefSeq, Sep 2012]