

Product datasheet for **SC103405**

PPM1K (AK057622) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1K (AK057622) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPM1K
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK057622, the custom clone sequence may differ by one or more nucleotides

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CATTTTTATTGTGAAATAATTTAAACATAAGATTGAGAATAATACTACTCTGTAGACCATCCACCAAC
ATCATCAAACCTTAGTATTCTGCCATCTTTCAAGTTGATTTTAAAAGAATAAAGTAATAGAACAAAATC
CTATGGAGACAAATTTTTATTTGTGTGGAAAATCCAGAAACAGCTCTACCTGCAGTGGGGTAGGAGT
TCCCCTGGGTAACACCCTGTAATGCCAAGAGAGGTTTTAGGATTGAGTTTCAGGGTGAGATCCAGAAATG
GGGGTGTAAAGTAATCGTTTCAAAGAAGTGTAGTCTCAAGTGTCTGGTTGTTAGGGTTGGGAAAGG
AGAGCTGCAGCTGTAATGTAATATATAGATCACTCGTTCAGAAATCAGGGCTGCTTGTACAAAATGCA
GTGCTGCCAGGTTCTGAGATCATACCCACATACCCTCCTAGTGAGAGAGTCTGTAGGATGGGGAGCAT
CAAAACTGGCTTATCTTTGTGCCTCTGGGGTGTTCACACCAATTTATATTTACCATAGTAATATAGTA
TGTAAGCTTAGTAGGTTAAGAAATGTTAAAATAAACTTAGATTTATCCTAGATTATGTTTTTGTAA
ACTTGGCCATTCTTTGGAACAGAACTATTTAAGTATTCTATTAGCCTGTTATTTTTCTGAAGAGAC
TTTGTGCTATTGTTAATTTTACCTACCTTTCTTTAAAGCAATAGAGTTAATGAAGGGAAGTATAT
TTATTTATACCTGTATTCTGTGTTCTTGCTACTAGAAGTGAACCTGGGGACCAGCAGCTTCTGTATCAC
CAGGGTGTGGTTAGAAATGCAGAGTGACTCCACCCCATAGCCACTGGGTGAGAATGCATTTTAAACA
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CCTCTGCCCTCTCTCCCTCTGTCCCTGTGACTTGATGCATCATTTTTCTTGAAGACATTCCATTATGTTT
CATTGACCTTTCCCTCATCACTGAGTCTTTGGAGCTGAGTTATGTCAACAGCTGCCTTAATTACTTTGG
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GATGGACACGGTGGACCTGCAGCAGCTGATTTCTGTCATACCCACATGGAGAAATGATTATGTATGTAC
AATGACTTTCACCTCTGACTTTGCAGTTCCTATACTTCTACTTAACTTTCACCCTTTGGCTGAGGCTT
CCAGCGTAAACATAGTACTTGAGTGGTTCATGCTGCTTCCGAATGAGCAGTAGTTAAGTGTGC
CATTTATTACTTATGTTATCACAAATTCAGAAATGCATGTTTTAACAACCTCCCTGGGAAAGCATTAA
CCAAAATCTATAGCACTAATTTGTGATCATTTAAGTGAAGTGGCATAATGTACATGAGATAACCTATG
AGAAGCATTTACTCCCATCAGTGTAGGACAGATAAGTGCTTCAGTAAATGGTAATTACTCTTTCAAGTGG
TGTGAATAGCTTTGAATACCTGACTTGTGAAAATAGCTTTGGATGATTGGCATTAGTGTGAAAATGC
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CCAGTGACCATTTCTGACTTCTGTGTTTACCGCATTCACGAAAGAACTCACAATGGGAAGAACTCT
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CCTTAAAAGCTTATCACAGTGCCTGATACTTTGTGGATTCTCAATAGGATTCTTACCCAGTAGGTCTT
CAGCATTTGACAGGAAAATCCTGAGGCCGTTGTGTGGAATGACTGCTAGCTAGAGTAACAGTGAAGAGA
AAAACCTATTGTAATGATTGTTAAGGCTCTTTTTTCTCCCAAAAGGGATTTGCTTCTAAGGA
GAAGAATGGAACTCTGTTGACCTTGGCTTTTCTAGAAATAGATAAAGCCTTTTCGAGTCATGCCCGC
CTGTCTGCTGATGGTATGTAAAATACCACATTCCTGGATCCTAGGGAGTACATGGGGTGGGGAGGAG
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TTTTAAAAGATTTTAAAATGTTAATCTGTTTGTCTATTTTATGGACAAAATGTCCATACTATAGTTT
TGTTTTGGGTTTTGGTTTTTTTTTAGATGGATCTGGTACCAAGTGTGAAATACACTACAGGTAAT
CACATCTAGCGAGGACAGTCATTGTCCAAC
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK057622 unedited GGTTCACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCAGGCAAGG CAGTGGCCGCTTTGACTGCTTGGTTCGGAGATCCGAGACGACGGAGAAGGCACTTTATT TACCGACCAAGAAAGCTCCTCCCCGCTCCTCCGTTAGCTAATTAACATTTTTTCAGGGA CGTAGCCATCCAGAGACATTCCATTATTGTTCCATTGACCTTTCCCTCATCACTGAGTCC TTTGGAGCTGAGTTATGTCAACAGCTGCCTTAATTAATTTGGTCAGAAGTGGTGGGAACC AGGTGAGAAGGAGAGTGTCTAAGCTCCCGCTGCTGCAGGACGACAGGCGGGTGACAC CCAGTGCCACAGCTCCACTTCAGAGCCTAGGTGTTCTCGGTTTGACCCAGATGGTAGTG GGAGTCCAGCTACCTGGGACAATTTGGGATCTGGGATAACCGCATTGATGAGCCAATTC TGCTGCCACCCAGCATTAAAGTATGGCAAGCCAATTCACAAAATCAGCTTGGAAAATGTGG GGTGCGCCTCACAGATTGGCAAACGGAAAGAGAATGAAGATCGGTTTGACTTCGCTCAGC TGACAGATGAGGTCTGTACTTTGCAGTGTATGATGGACACGGTGGACCTGCAGCAGCTG ATTTCTGTCATACCCACATGGAGAAATGTATTATGTATGTACAATGACTNCACTCCTGA CTNTGCAGTTCCTATACTTCTACTTAACTTTACCCTTTGGCTGNAGCTTNCAGCGTA NACATAGTTACTTGAGTGGTTGCATGCTGCTGCTCACGAATGAGCAGTAGTTTAGTGTG CCATTTACTTATGGGTATCACAAATTCAGAAATGCATGNTTTAACAACTNCCTGGGGA AAGCATTACCAAATCTTAGCACTAATNTGTGACATTTAAGTGAA
Restriction Sites:	NotI-NotI
ACCN:	AK057622
Insert Size:	4200 bp
OTI Disclaimer:	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).
Components:	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:	<ol style="list-style-type: none"> 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:	<u>AK057622.1</u>
RefSeq Size:	3180 bp
RefSeq ORF:	3180 bp
Locus ID:	152926
Cytogenetics:	4q22.1
Protein Families:	Phosphatase

Gene Summary:

This gene encodes a member of the PPM family of Mn²⁺/Mg²⁺-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]