

Product datasheet for **SC117895**

PPM1D (NM_003620) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1D (NM_003620) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPM1D
Synonyms:	IDDGIP; JDVS; PP2C-DELTA; WIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003620, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGGCTGTACTCGCTGGGAGTGAGCGTCTTCTCCGACCAGGGCGGGAGGAAGTACATGGAGGACG
TACTCAAATCGTTGTGGAGCCGAACCGACGGCTGAAGAAAAGCCCTCGCCGGCGGTCGCTGTCTCA
GCCGTTGCTCCGCGCCGTCGCGGCCGCCCTTCCCGGGCGGAAGTCTCGGGAAAGGCCAGCGGTG
GCAGCCCGAGAGGCTCGCGACCCTCTCCGGACGCGGGGCTCGCCGGCACCTAGCCGCTGCTGCCGCC
GCCGTTCTCCGTGGCCTTTTTCCGCGTGTGCGACGGGCACGGCGGGCGGAGGCCGACAGTTTGCCTG
GGAGCACTTGTGGGTTTCATCAAGAAGCAGAAGGTTTACCTCGTCCGAGCCGGCTAAGTTTGCCT
GCCATCCGCAAAGGCTTCTCGCTTGTACCTTGCATGTGGAAGAACTGGCGGAATGGCCAAAGACTA
TGACGGGTCTTCTAGCACATCAGGGACAAGTCCAGTGTGGTTCATTCGCGGCATGAAGATGTATGT
AGCTCACGTAGGTGACTCAGGGTGGTTCTTGAATTGAGGATGACCCGAAGGATGACTTTGTCAGAGCT
GTGGAGGTGACACAGGACCATAAGCCAGAACTTCCAAGGAAAGAGAACGAATCGAAGGACTTGGTGGGA
GTGTAATGAACAAGTCTGGGGTGAATCGTGTAGTTTGAAGAACGACCTCGACTCACTACAATGGACCTGT
TAGAAGGAGCACAGTTATTGACCAGATTCTTTCTGGCAGTAGCAAGAGCACTTGGTGATTTGTGGAGC
TATGATTTCTCAGTGGTGAATTTGTGGTGTACCTGAACCAGACACAAGTGTCCACACTTTGACCCTC
AGAAGCACAAGTATATTATTGGGGAGTGATGGACTTTGGAATATGATTCCACCACAAGATGCCATCTC
AATGTGCCAGGACCAAGAGGAGAAAAATACCTGATGGGTGAGCATGGACAATCTGTGCCAAAATGCTT
GTGAATCGAGCATTGGGCCGCTGGAGGCAGCGTATGCTCCGAGCAGATAACACTAGTGCCATAGTAATCT
GCATCTCTCCAGAAGTGGACAATCAGGGAACTTTACCAATGAAGATGAGTTACCTGAACCTGACTGA
CAGCCCTTCTATAATAGTCAAGAACTGTGTGATGACTCTTCCCATGTTCTACACCACCAAGTCAAG
TCACTGGAGGAGGATCCATGGCCAAGGGTGAATTCTAAGGACCATACCTGCCCTGGTTCGTAGCAATG
CCTTCTCAGAGAATTTTTAGAGGTTTACGCTGAGATAGCTCGAGAGAATGTCCAAGGTGATGCATACC
CTCAAAAGATCCAGAACCCTTGAAGAAAATTGCGCTAAAGCCCTGACTTTAAGGATACATGATTCTTTG
AATAATAGCCTTCCAATTGGCCTTGTGCCTACTAATTCAACAAACTGTGATGGACAAAAAATTTGA
AGATGTCAACTCTGGCCAAATGAAAGCCCAAGAAATTGAAAGAACCCTCCAACAACTTTAAAAGGAC
ATTAGAAGAGTCCAATTCTGGCCCCCTGATGAAGAAGCATAGACGAAATGGCTTAAGTGAAGTAGTGGT
GCTCAGCTGCAAGTCTCCCAACCTCACAGCGAAAGAACTCTGTTAACTCACCATGCGACGCAGAC
TTAGGGCCAGAAGAAAATTGAAATCCTTTACTTCATCAACACAGGAAAAGTGTGTGTTTGTCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003620 unedited

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GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTTCTCCGGTCCGCC
CCCTCCCCTTCTCGGCGTCGTCGAAGATAAACAATAGTTGGCCGGCAGCGCCTAGTGT
GTCTCCCGCCCGCGGATTCGGCGGGCTGCGTGGGACCGCGGGATCCCGCCAGCCGCC
ATGGCGGGGCTGTACTCGCTGGGAGTGAGCGTCTTCTCCGACCAGGGCGGGAGGAATAC
ATGGAGGACGTTACTCAAATCGTTGTGGAGCCGAACCGACGGCTGAAGAAAAGCCCTCG
CCGCGGGGTCGCTGTCTCAGCCGTTGCCTCCGCGGCCGTCGCCGGCCGCCCTTCCCGGC
GGCGAAGTCTCGGGAAAGGCCAGCGGTGGCAGCCCAGAGGCTCGCGACCCTCTCCCG
GACGCGGGGCTCGCCGGCACCTAGCCGCTGCTGCCGCCCGTTCCTCCGTGGCCTTT
TTCGCGTGTGCGACGGGCACGGCGGGGAGGCGGCACAGTTTGCCTGGGAGCACTTG
TGGGTTTTCATCAAGAAGCAGAAGGTTTACCTCGTCCGAGCCGGCTAAGTTTGCCT
GCCATCCGCAAAGGCTTCTCGCTTGTACCTTGCATGTGGAAGAACTGGCGGAATGG
CCAAAGACTATGACGGGCTTCTAGCACATCAGGGACAAGTCCAGTGTGGTTCATCATT
CGGNGCATGAAGATGTATGTAGCTCACGTAGGTGACTCAGGGNGTGGCTTCTTGGNATTC
AGGATGACCCGAAGGATGACTNTGTGAGAGCTGTGGGAGTGACACAGGACCCATAGCCAG
AACTTCCAGGNNAAGAGACGAATCGATGACTTGGTGGGAGTGTAAAGACAGTCTGGGT
GAATCGCGGATTTGGGAACCGACTCGACTACTCACATGGACCTGNTAGAAGAGCCAGTT
ATGACAAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003620 unedited ACCGCGGCCGCAATTTAGAGTCGAGCCCTTTCTTTTTTTTTTTCTTTTTCTTTTTTTTT TTTTTTTTTTTTTTTTCTTTTTGGGGGACCGGTCCTGTTTATTTAAAAGAACCTTTTCCC CTATAATCAATGAAAACGTGTTGATCTAAAAAATTTAAAAATGGCGGGAATTAACCGC CCCCTTTGTTTTGAAAATAACAAGGACAATTTCCCCTTTTTAACCACCCGAAAAGGG GGTAATTCCTTTAAAACCTAAATATGCCATTGGTCTGGGATGAAAAAAGGGAATTGCC CTTAAACTGTTTTAAGGCAACACCCTTCTTTTATGCCGAAAACCTAATAAGCCCTTTCG CAGACCCAGGCTTTAAAAAACGCCCTGGTGGAAAACACACCGGCTAGCCCTTAATTG CGCCAACCAACTGGTCTCGGGCTTCATCCTTCTATGAAACATTTACCTCCTAATTCCG CCATTCCGAAATCAAACCTTTTGTTAACCGACCCCTTGGCTTCTTCAAACATTAAGCG ACACCCCGCGCCCTGAAAATACACCCTTTTCCCCCGCCTAATAATTTACCTTACA AAGTCGTACCGCTTCCAACACAACGCTCCATACAAATTCTCTACCTACCCCTCTCACAG TCTACCCGTTTTTCAAACCAACAAAATCTTTGGATTCTCCAACCCCATCCCTTT TGTACCCCTCCTCGTATTACACACCTTAACTCCGGTCTTCCACACTGAATTTGCGCG CTTCCACTCCCCATTTCTCGGTTCTTCTTACCCTTTAACCCCTTCCCTTTACC CCCCCGCCCGATAAACCGCCATCCAAAAGAAACATGTTCTCCTTTATCCCCCCTCA AAAAGGTACACTGCCCCACTTAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_003620
Insert Size:	2840 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>NM_003620.2</u> , <u>NP_003611.1</u>
RefSeq Size:	3163 bp
RefSeq ORF:	1818 bp
Locus ID:	8493
UniProt ID:	<u>O15297</u>
Cytogenetics:	17q23.2
Domains:	PP2C
Protein Families:	Druggable Genome, Phosphatase

Protein Pathways: p53 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. The expression of this gene is induced in a p53-dependent manner in response to various environmental stresses. While being induced by tumor suppressor protein TP53/p53, this phosphatase negatively regulates the activity of p38 MAP kinase, MAPK/p38, through which it reduces the phosphorylation of p53, and in turn suppresses p53-mediated transcription and apoptosis. This phosphatase thus mediates a feedback regulation of p38-p53 signaling that contributes to growth inhibition and the suppression of stress induced apoptosis. This gene is located in a chromosomal region known to be amplified in breast cancer. The amplification of this gene has been detected in both breast cancer cell line and primary breast tumors, which suggests a role of this gene in cancer development. [provided by RefSeq, Jul 2008]