

Product datasheet for **SC324040**

PPM1B (NM_177969) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1B (NM_177969) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPM1B
Synonyms:	PP2C-beta; PP2C-beta-X; PP2CB; PP2CBETA; PPC2BETAX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_177969.2
 TGCTCAATGGCGGAAAAGCCGCCGGTGCTCTGACGGCCTCGTTCCCCTAGCAGTTGCGGG
 GGAGTTTCTGCCGGCGCGGCTGGAGTCTCTGATTCTCAGGGTTCGGTGGTTGGAAGATG
 CTCCAGAGAGACGAGGCTGCGGCGGAGGAGGTGGCGGCGGCCGAATCGGCAACGGCGCTA
 GGGTGGAGAGAAGGCGGACGCGGCGGCGGCGGCGTGAAGGGCCGGCGGTGTAAACA
 GCCCGGAGGCGGCGGAGGCGGCGGTGAGACCCGAGGGGGAAGCGGCGGTGAGTCAG
 GGTCGCGCCTCCGTTGGAACCTGGGCTGAGTACCGCGGCGGCGGCGGAGCGAGGCGCCCT
 AGACATTTCTCCCTCCCTTGCCTCAGATTTATTGCTAAACATGGGTGCATTTTTGGATA
 AACCCAAAACGAAAAACATAATGCTCATGGTGTGGAAATGTTTTACGTTATGGCTGA
 GCAGCATGCAAGGATGGAGAGTGGAAATGGAAGATGCACACACAGCTGTTGTAGGTATTC
 CTCACGGCTTGGAAAGACTGGTCATTTTTGTCAGTTTATGATGGTCATGCTGGATCCCGAG
 TGGCAAATTAAGTCTCAACACATTTATTAGAACACATCACTACTAACGAAGACTTTAGGG
 CAGCTGGAAAATCAGGATCTGCTCTTGAGCTTTCAGTGGAAAATGTTAAGATGGTATCA
 GAACTGGATTTTTGAAAATTGATGAATACATGCGTAACTTTTCAGACCTCAGAAACGGGA
 TGGACAGGAGTGGTTCAACTGCAGTGGGAGTTATGATTTACCTAAGCATATCTACTTTA
 TCAACTGTGGTGATTACAGTGTCTTCTGTATAGGAATGGACAAGTCTGCTTTTCTACCC
 AGGATCACAACCTTGAATCCAAGGAAAAGGAGCGAATCCAAAATGCAGGAGGCGAGCG
 TGATGATACAACGTGTTAATGGTTCATTAGCAGTATCTCGTGCTCTGGGGGACTATGATT
 ACAAGTGTGTTGATGGCAAGGGCCCAACAGAACAACCTGTTTTCTCCAGAGCCTGAGGTTT
 ATGAAATTTAAGAGCAGAAGAGGATGAATTTATCATCTTGGCTTGTGATGGGATCTGGG
 ATGTTATGAGTAATGAGGAGCTCTGTGAATATGTTAAATCTAGGCTTGGAGTATCTGATG
 ACCTGGAAAATGTGTCAATTGGTAGTGGACACTTGTTCACACAAGGGAAGTCGAGATA
 ACATGAGTATTGTACTAGTTTGTCTTTTCAAATGCTCCCAAGGTCTCAGATGAAGCGGTGA
 AAAAAGATTACAGAGTTGGATAAGCACTTGAATACCGGGTTGAAGAGATTATGGAGAAGT
 CTGGCGAGGAAGGAATGCCTGATCTTGCCCATGTCATGCGCATCTTGTCTGCAGAAAATA
 TCCCAAATTTGCCTCTGGGGGAGGTCTTGTGCAAGCGTAATGTTATTGAAGCTGTTT
 ATAGTAGACTGAATCCACATAGAGAAAAGTATGGGGCCTCCGATGAAGCAGAGGAAAAGT
 GATCACAGGAAAATGGTGGAAAGCTCTCAGGCAAATGAGAAATTAATCATAGGGGAACT
 ACCGACAACCTTCTGGAGGAGATGCTGACTAGTTACAGGCTAGCTAAAGTAGAGGGAGAAG
 AAAGCCCTGCTGAACCAGCTGCCACAGCTACTTCTCGAACAGTATGCTGGAAACCCAG
 TGACAATGCAGGAAAGCCATACTGAATCAGAAAGTGGTCTTGCTGAATTAGACAGCTCTA
 ATGAAGATGCAGGACAAAGATGAGTGGTGAATAATATGACTTTCTTTTTGGTAAATAT
 TTTTGTGATCTTTGATGGTTTTAACCTAGGAAGTGAATGTATGCATTTATATAACTGT
 TTTGTTATTTGAATCTTGAAAACCTAGTTTTATTATTCAGATAGCCTGTTTTTTAA
 AAGGCCTTTGCATACACCTTTATGAGATAGTGTAAAATGACTATTTATAGTACTATGGA
 TTTAATGAAATTAATGTCAATTCACATTGTATGCCAGAAATAGGCTACCAATTATGAA
 TTAAGTCAGTAGTTAAATTAATACTAGATAGAATTAGAAATTTGATTAGAGAGATTAT
 GCTATATTATGGAAAACCTGTTAATGTAGAATTATACTGCTTCATATTTTACCTAT
 TAGTCACTCATAGTTAGCTTTGTAATAAATTTATGTTTTCTTTAATAATTTTAGTTCTT
 CAAAGAATGGCTGATGCTGGCCTGTAATTTTTCTTTCAAGGATGATAATTTGTGTGTTGT
 TTGATTTGTTTATTTTTACATCTCTGTAGTTTTATTTTTAGAAGTTGTGAGATATTGGA
 TGTGTGGCTATTTTCTTTCTGTATTCTTTATGAAACATAACTTTTGAAAACCTAT
 GTATTATTCATACAGCTTTGGTTTGTATATTCTGTATAGCCTAACTACACACATCAAAA
 GTATGTCAACCAAGTGTGTAAGTGAATATAAGTGTGTTAAGTCCAAATAAAGCATGTG
 ATGTGGAATAATCTAA
 AA

Restriction Sites: ECoRI-NOT

ACCN: NM_177969

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_177969.2 , NP_808908.1
RefSeq Size:	1776 bp
RefSeq ORF:	579 bp
Locus ID:	5495
UniProt ID:	O75688
Cytogenetics:	2p21
Protein Families:	Druggable Genome, Phosphatase, Stem cell - Pluripotency
Protein Pathways:	MAPK signaling pathway
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 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]</p> <p>Transcript Variant: This variant (3) lacks an alternate exon, and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (3) is shorter at the N-terminus, compared to isoform 1.</p>