

Product datasheet for **SC310457**

PPM1B (NM_177968) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1B (NM_177968) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPM1B
Synonyms:	PP2C-beta; PP2C-beta-X; PP2CB; PP2CBETA; PPC2BETAX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310457 representing NM_177968. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGTGCATTTTGGATAAACCCAAAACCTGAAAAACATAATGCTCATGGTCTGGGAATGGTTTACGT
TATGGCCTGAGCAGCATGCAAGGATGGAGAGTGGAAATGGAAGATGCACACACAGCTGTTGTAGGTATT
CCTCACGGCTTGAAGACTGGTCATTTTTTGCAGTTTATGATGGTCTGCTGGATCCCGAGTGGCAAT
TACTGCTCAACACATTTATTAGAACACATCACTACTAACGAAGACTTTAGGGCAGCTGGAAAATCAGGA
TCTGCTTTGAGCTTTCAGTGGAAAATGTTAAGAATGGTATCAGAAGTGGATTTTAAAAATTGATGAA
TACATGCGTAACTTTTCAGACCTCAGAAACGGGATGGACAGGAGTGGTTCACTGCAGTGGGAGTTATG
ATTTACACCTAAGCATATCTACTTTATCAACTGTGGTGATTACAGTCTGTTCTGTATAGGAATGGACAA
GTCTGCTTTTCTACCCAGGATCACAAAACCTTGCAATCCAAGGGAAAAGGAGCGAATCCAAAATGCAGGA
GGCAGCGTGATGATACAACGTGTTAATGGTTCATTAGCAGTATCTCGTGCTCTGGGGACTATGATTAC
AAGTGTGTTGATGGCAAGGGCCCAACAGAACTTGTCTCCAGAGCCTGAGGTTTATGAAATTTTA
AGAGCAGAAGAGGATGAATTTATCATCTTGCTTGTGATGGGATCTGGGATGTTATGAGTAAATGAGGAG
CTCTGTGAATATGTTAAATCTAGGCTTGAGGTATCTGATGACCTGGAAAATGTGTGCAATTGGGTAGTG
GACACTTGTTTACACAAGGGAAGTCGAGATAACATGAGTATTGTACTAGTTTGTCTTTTCAAATGCCTCC
AAGGTCTCAGATGAAGCGGTGAAAAAGATTGAGAGTTGGATAAGCACTTGGAAATCACGGGTTGAAGAG
ATTATGGAGAAGTCTGGCGAGGAAGGAATGCCTGATCTTGCCCATGTCATGCGCATCTTGTCTGCAGAA
AATATCCCAAATTTGCCTCCTGGGGAGGTCTTGTGCAAGCGTAATGTTATTGAAGCTGTTTATAGT
AGACTGAATCCACATAGAGAAAGTATGGGGTCTGGAGATCTAGAAGACCCATGGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:	□
ACCN:	NM_177968
Insert Size:	1164 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).
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_177968.3
RefSeq Size:	3908 bp
RefSeq ORF:	1164 bp
Locus ID:	5495
UniProt ID:	O75688
Cytogenetics:	2p21
Protein Families:	Druggable Genome, Phosphatase, Stem cell - Pluripotency
Protein Pathways:	MAPK signaling pathway
MW:	42.8 kDa

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. 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]

Transcript Variant: This variant (2) contains an alternate 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1.