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Product datasheet for SC121298

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:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_177969, the custom clone sequence may differ by one or more nucleotides

ATGAGTATTGTACTAGTTTGCTTTTCAAATGCTCCCAAGGTCTCAGATGAAGCGGTGAAAAAAGATTCAG
AGTTGGATAAGCACTTGGAATCACGGGTTGAAGAGATTATGGAGAAGTCTGGCGAGGAAGGAATGCCTGA
TCTTGCCCATGTCATGCGCATCTTGTCTGCAGAAAATATCCCAAATTTGCCTCCTGGGGGAGGTCTTGCT
GGCAAGCGTAATGTTATTGAAGCTGTTTATAGTAGACTGAATCCACATAGAGAAAGTGATGGGGCCTCCG
ATGAAGCAGAGGAAAGTGGATCACAGGGAAAATTGGTGGAAGCTCTCAGGCAAATGAGAATTAATCATAG
GGGAAACTACCGACAACTTCTGGAGGAGATGCTGACTAGTTACAGGCTAGCTAAAGTAGAGGGAGAAGAA
AGCCCTGCTGAACCAGCTGCCACAGCTACTTCTTCGAACAGTGATGCTGGAAACCCAGTGACAATGCAGG
AAAGCCATACTGAATCAGAAAGTGGTCTTGCTGAATTAGACAGCTCTAATGAAGATGCAGGGACAAAGAT
GAGTGGTGAAAAAATATGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_177969 unedited
GTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCTCGTGCCGAATTCGG
CACGAGGGCCCAACAGAACAACTTGTTTCTCCAGAGCCTGAGGTTTATGAAATTTTAAGA
GCAGAAGAGGATGAATTTATCATCTTGGCTTGTGATGGGATCTGGGATGTTATGAGTAAT
GAGGAGCTCTGTGAATATGTTAAATCTAGGCTTGAGGTATCTGATGACCTGGAAAATGTG
TGCAATTGGGTAGTGGACACTTGTTTACACAAGGGAAGTCGAGATAACATGAGTATTGTA
CTAGTTTGCTTTTCAAATGCTCCCAAGGTCTCAGATGAAGCGGTGAAAAAAGATTCAGAG
TTGGATAAGCACTTGGAATCACGGGTTGAAGAGATTATGGAGAAGTCTGGCGAGGAAGGA
ATGCCTGATCTTGCCCATGTCATGCGCATCTTGTCTGCAGAAAATATCCCAAATTTGCCT
CCTGGGGGAGGTCTTGCTGGCAAGCGTAATGTTATTGAAGCTGTTTATAGTAGACTGAAT
CCACATAGAGAAAGTGATGGGGGTGCTGGAGATCTANAAGACCCATGGTAGCCTTAAAAA
CCTTCTAAAATGCTTTTGATTCTGAAAATTGGGGGAAAAAACTTTTAATCACAATTTTCT
TCAATACAAGGGGAAAATATTCTTGCGGATTCCCAACGTTNTGTGATATGAGCAGANAAT
CATTAGCATTTCCCATCATTTGTTCATATTNTGNNGTTTCTGACAGTTGCCACTTGTAGC
ATTGCCTGTACTACAGNTATTTNTTGCCAACCTCANGCATACTCGTTACATCTGTATTGA
AACTTTCGCCCTAGAACCCANGGGAGNTATTTCACCACAATCAACATGTGCCCTGAGTGC
ATGGGAAATATAGNTAGCTATCTCTGAATACATNTTGGTTT

Restriction Sites: ECoRI-NOT

ACCN: NM_177969

Insert Size: 3000 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:
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_177969.1, NP_808908.1

RefSeq Size: 1760 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: 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 (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.