

Product datasheet for RC215704

PPM1B (NM_001033557) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1B (NM_001033557) Human Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>RC215704 representing NM_001033557 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGCATTTTTGGATAAACCCAAAACCTGAAAAACATAATGCTCATGGTGTGGGAATGGTTTACGTT
ATGGCCTGAGCAGCATGCAAGGATGGAGAGTGGAAATGGAAGATGCACACACAGCTGTTGTAGGTATTCC
TCACGGCTTGAAGACTGGTCATTTTTTGCAGTTTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
TGCTCAACACATTTATTAGAACACATCACTACTAACGAAGACTTTAGGGCAGCTGGAAAATCAGGATCTG
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CGGTAACCTTTTCAGACCTCAGAAACGGGATGGACAGGAGTGGTTCAACTGCAAGTGGGAGTTATGATTTC
CCTAAGCATATCTACTTTATCAACTGTGGTGATTCACGTGCTGTTCTGTATAGGAATGGACAAGTCTGCT
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AGGATGAATTTATCATCTGGCTTGTGATGGGATCTGGGATGTTATGAGTAATGAGGAGCTCTGTGAATA
TGTTAAATCTAGGCTTGAGGTATCTGATGACCTGGAAAATGTGTGCAATTGGGTAGTGGACACTTGTTA
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AAGCGGTGAAAAAGATTACAGATTGGATAAGCACTTGGAAATCACGGGTTGAAGAGATTATGGAGAAGTC
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CCTCCTGGGGAGGTCTTGTGCAAGCGTAATGTTATTGAAGCTGTTTATAGTAGACTGAATCCACATA
GAGAAAGTATGGGCAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215704 representing NM_001033557
 Red=Cloning site Green=Tags(s)

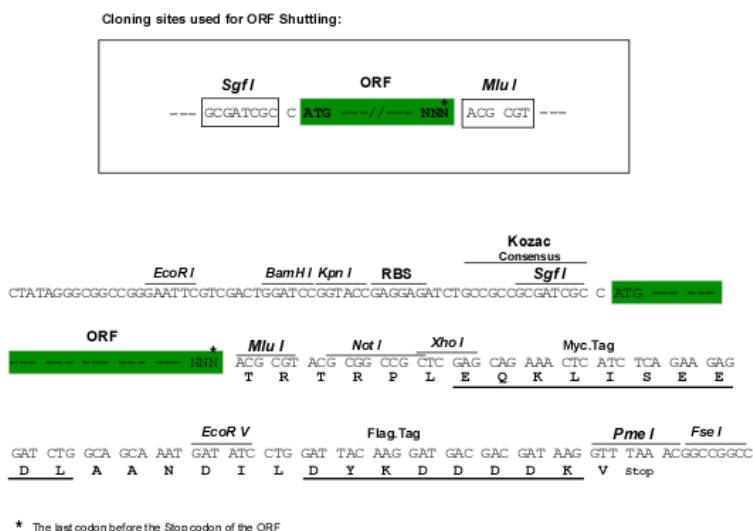
MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYDGHAGSRVANY
 CSTHLLLEHITTNEFDRAAGKSGSALELSVENVKNGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMIS
 PKHIYFINCGDSRAVL YRNGQVCFSTQDHKPCNPREKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
 DGKGPTEQLVSPPEVYEILRAEDEFIILACDGIWDVMSNEELCEYVKSRLLEVSDDLNVCNWVVDTCLE
 HKGSRDNMSIVLVCFSNAPKVSDEAVKKDSELDKHLSESRVEEIMEKSGEEGMPDLAHVMRILSAENIPNL
 PPGGLLAGKRNVEAVYSRLNPHRESDGQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033557

ORF Size: 1140 bp

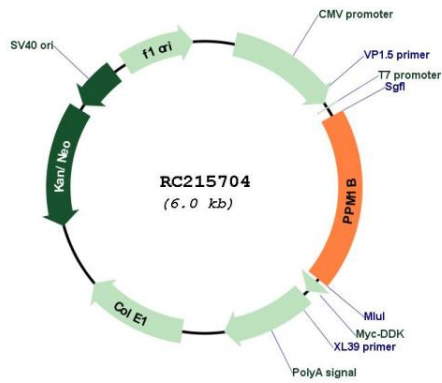
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001033557.3
RefSeq Size:	3056 bp
RefSeq ORF:	1143 bp
Locus ID:	5495
UniProt ID:	O75688
Cytogenetics:	2p21
Protein Families:	Druggable Genome, Phosphatase, Stem cell - Pluripotency
Protein Pathways:	MAPK signaling pathway
MW:	41.9 kDa
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>

Product images:



Circular map for RC215704