

Product datasheet for RC213787

PPM1B (NM_001033556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1B (NM_001033556) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPM1B
Synonyms:	PP2C-beta-X; PP2CB; PP2CBETA; PPC2BETAX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213787 representing NM_001033556 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGTGCATTTTGGATAAACCCAAAACCTGAAAAACATAATGCTCATGGTGTGGGAATGGTTTACGTT
ATGGCCTGAGCAGCATGCAAGGATGGAGAGTGGAAATGGAAGATGCACACACAGCTGTTGTAGGTATTCC
TCACGGCTTGAAGACTGGTCATTTTTGCAGTTTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
TGCTCAACACATTTATTAGAACACATCACTACTAACGAAGACTTTAGGGCAGCTGGAAAATCAGGATCTG
CTCTTGAGCTTTCAGTGGAAAATGTTAAGAATGGTATCAGAAGTGGATTTTAAAAATTGATGAATACAT
GGTAACTTTTCAGACCTCAGAAACGGGATGGACAGGAGTGGTTCAACTGCAAGTGGGAGTTATGATTTC
CCTAAGCATATCTACTTTATCAACTGTGGTGATTCACGTGCTGTTCTGTATAGGAATGGACAAGTCTGCT
TTTCTACCCAGGATCACAAACCTTGCAATCCAAGGGAAAAGGAGCGAATCCAAAATGCAGGAGGCAGCGT
GATGATACAACGTGTTAATGGTTCATTAGCAGTATCTCGTCTGGGGACTATGATTACAAGTGTGTT
GATGGCAAGGGCCCAACAGAACAACCTGTTTCCAGAGCCTGAGGTTTATGAAATTTAAGAGCAGAAG
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TGTTAAATCTAGGCTTGGGTATCTGATGACCTGGAAAATGTGTGCAATTGGGTAGTGGACACTTGTGTTA
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AAGCGGTGAAAAAAGATTCAGAGTTGGATAAGCACTTGGAAATCACGGGTTGAAGTAAGACAAATGCTTT
T

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213787 representing NM_001033556
Red=Cloning site Green=Tags(s)

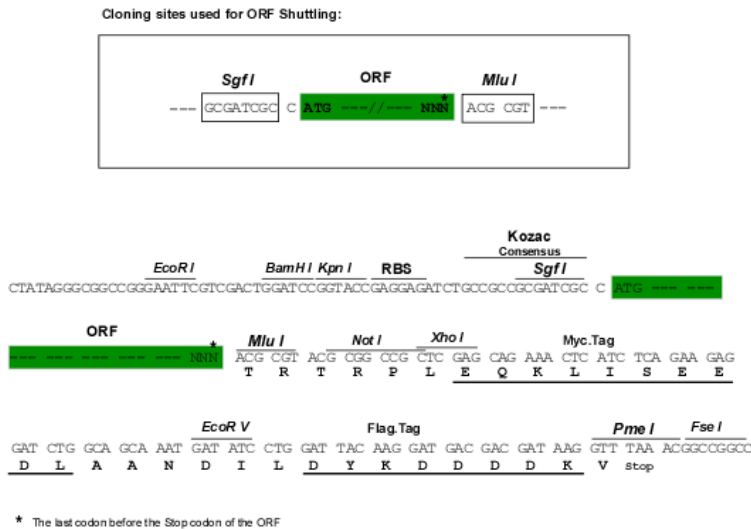
MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYDGHAGSRVANY
 CSTHLLLEHITTNEDEFRAAGKSGSALELSVENVKNGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMIS
 PKHIYFINCGDSRAVLYRNGQVCFSTQDHKPCNPREKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
 DGKGPTQLVSPPEVYEILRAEDEFIILACDGIWDVMSNEELCEYVKSRLLEVSDDLNVCNWVVDTC
 HKGSRDNMSIVLVCFSNAPKVSDEAVKKDSELDKHLSESRVEGKTNAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033556

ORF Size: 981 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:

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_001033556.1](#), [NP_001028728.1](#)

RefSeq Size: 1497 bp

RefSeq ORF: 984 bp

Locus ID: 5495

Cytogenetics: 2p21

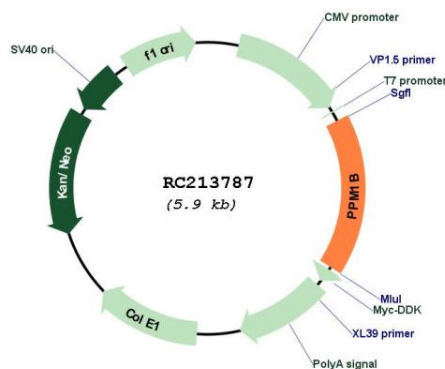
Protein Families: Druggable Genome, Phosphatase, Stem cell - Pluripotency

Protein Pathways: MAPK signaling pathway

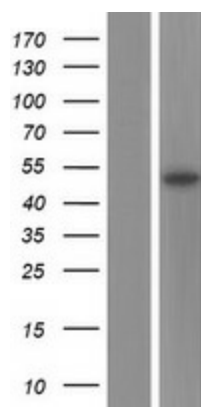
MW: 36.1 kDa

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]

Product images:



Circular map for RC213787



Western blot validation of overexpression lysate (Cat# [LY422387]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213787 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).