

Product datasheet for **MR223142**

Ppm1b (NM_001159496) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1b (NM_001159496) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppm1b
Synonyms:	PP2CB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223142 representing NM_001159496
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGCATTTTTGGATAAACCCAAAACCTGAAAAGCACAATGCTCACGGTGCTGGGAATGGTCTCGCTT
 ATGGCCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGATGCACACACAGCTGTTGTGGGTATTCC
 TCACGGCTTGACAACCTGGTCGTTTTTGCAGTTTATGACGGTCATGCTGGATCCCGAGTGGCAAATTAC
 TGTTCAACACATCTATTAGAACACATCACCAACATGAAGACTTCAGGGCAGCTGACAAAACAGGCTCTG
 CTCTCGAGCCTTCAGTAGAAAGTGTGAAGACTGGTATCAGGACTGGCTTTTTGAAAATTGATGAATATAT
 GCGTAACCTCTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCGACTGCAGTGGGCGTGATGGTCTCC
 CCTACACACATGTAACCTCACTGTGGTGACTCTCGAGCTGTTCTGTGTAGGAACGGACAGGTCTGCT
 TTTCTACCCAGGATCACAAACCTTGTAAATCCAGTGGAGAAGGAGCGCATCCAAAACGAGGAGGCAGTGT
 GATGATCCAGCGTGTGAACGGCTCACTAGCAGTGTCTCGGCTCTGGGGACTATGACTACAAGTGTGTG
 GATGGCAAGGGCCCTACAGAGCAGCTTGTTCCTCAGAGCCTGAGGTTTATGAGATTGTGAGAGCAGAAG
 AGGATGAGTTTGTCTTGGCCTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT
 TGTTAAGTCTAGGCTTGGGTGTGCGACGACCTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
 CATAAGGGAAGTCGAGATAACATGAGTGTGTATTAGTTTGTCTTTCAAATGCCCAAGGTCTCAGAGG
 AAGCCGTGAAGAGAGATTAGAGTTGGATAAGCACTTGGAAATCACGGGTTGAAGAAATCATGCAGAAGTC
 TGGGGAGGAAGGAATGCCTGATCTTGCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCGAATTTA
 CCTCCCGGGGAGGTCTCGCTGGCAAGCGCCATGTTATTGAAGCTGTTTATAGTAGACTTAATCCACACA
 AAGACAATGATGGGGCCCTCCGATGAAGCAGAGGAAGGTGGATCACAGGGGAAATTTGGTGGAAAGCTC
 GCAAAATGAGAGTTAACCATAGGGGAAACTACCGACAGCTGCTGGAGGAGATGCTGACTAGTTACAGGCTA
 GCTAAAGTAGAGGGAAGAGAGAGCCCGCTGACCCAGCGGCTGCAGCTGCTTCTCGAACAGTGTGGTG
 GAAACCCAGTGGCAATGCAGGAGAGAGACTGAGGGTGGTCTGCTGGCCTAGACAGCCGTAATGAAGA
 TGCAGGGACAAAGAGGAGTGTGAAAATATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223142 representing NM_001159496
 Red=Cloning site Green=Tags(s)
 MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLDNWSFFAVYDGHAGSRVANY
 CSTHLLLEHITTNEDEFRAADKSGSALEPSVESVKTGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMVS
 PTHMYFINCGDSRAVLCRNGQVCFSTQDHKPCNPVEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
 DGKGPTEQLVSPEPEVYEIVRAEDEFVVLACDGIWDVMSNEELCEFVKSRLVSDDLLENVCNWWVDTCL
 HKGSRDNMSVVLVCFSNAPKVSEEAVKRDELDKHLESRVEEIMQKSGEEMPDLAHVMRILSAENIPNL
 PPGGGLAGKRHVIEAVYSRLNPHKDNDGASDEAEEGSQGKLVLEALRQMRVNHGRNYRQLLEEMLTSYRL
 AKVEGEESPADPAAAAAASSNSDGGNPVAMQERDTEGGPAGLDSRNEAGTKRSAENI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001159496

ORF Size: 1431 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_001159496.1](#), [NP_001152968.1](#)

RefSeq Size: 2753 bp

RefSeq ORF: 1434 bp

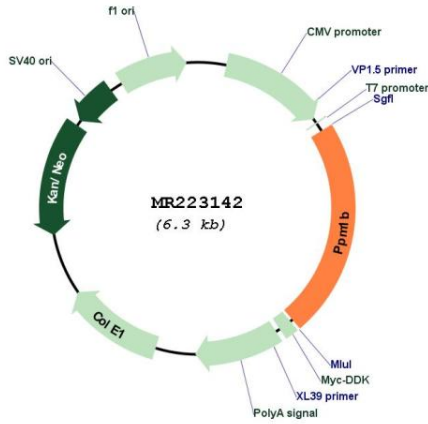
Locus ID: 19043

Cytogenetics: 17 55.13 cM

MW: 52.1 kDa

Gene Summary: Enzyme with a broad specificity. Dephosphorylates PRKAA1 and PRKAA2. Inhibits TBK1-mediated antiviral signaling by dephosphorylating it at 'Ser-172'. Plays an important role in the termination of TNF-alpha-mediated NF-kappa-B activation through dephosphorylating and inactivating IKBKB/IKKB.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223142