

## Product datasheet for **MR224353**

### **Ppm1b (NM\_011151) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1b (NM_011151) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppm1b
Synonyms:	PP2CB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR224353 representing NM_011151 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGTGCATTTTGGATAAACCCAAAACCTGAAAAGCACAATGCTCACGGTGTGGGAATGGTCTGCGTT  
ATGGCCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGATGCACACACAGCTGTTGTGGGTATTCC  
TCACGGCTTGGACAACTGGTCGTTTTTTCAGTTTATGACGGTCATGCTGGATCCCGAGTGGCAAATTAC  
TGTTCAACACATCTATTAGAACACATCACCACCAATGAAGACTTCAGGGCAGCTGACAAATCAGGCTCTG  
CTCTCGAGCCTTCAGTAGAAAGTGTGAAGACTGGTATCAGGACTGGCTTTTTGAAAATTGATGAATATAT  
GCGTAACTTCTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCGACTGCAGTGGGCGTGATGGTCTCC  
CCTACACACATGTACTTCATCAACTGTGGTGACTCTCGAGCTGTTCTGTGTAGGAACGGACAGGTCTGCT  
TTTCTACCCAGGATCACAAACCTTGAATCCAGTGGAGAAGGAGCGCATCCAAAACGCAGGAGGCAGTGT  
GATGATCCAGCGTGTGAACGGCTCACTAGCAGTGTCTCGGGCTCTGGGGACTATGACTACAAGTGTGTG  
GATGGCAAGGGCCCTACAGAGCAGCTTGTTCCTCAGAGCCTGAGGTTTATGAGATTGTGAGAGCAGAAG  
AGGATGAGTTTGTGCTTGGCCTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT  
TGTTAAGTCTAGGCTTGAGGTGTGCGACGACCTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA  
CATAAGGGAAGTCGAGATAACATGAGTGTGTATTAGTTTGTCTTTCAAATGCCCAAGGTCTCAGAGG  
AAGCCGTGAAGAGAGATTGAGAGTTGGATAAGCACTTGAATCACGGGTTGAAGAAATCATGCAGAAGTC  
TGGGGAGGAAGGAATGCCTGATCTTGCCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCGAATTTA  
CCTCCCGGGGAGGTCTCGCTGGCAAGCGCCATGTTATTGAAGCTGTTTATAGTAGACTTAATCCACACA  
AAGACAATGATGGGGCGCTGGCGATCTAGAAGACTCATTGGTAGCCTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR224353 representing NM\_011151  
Red=Cloning site Green=Tags(s)

MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLDNWSFFAVYDGHAGSRVANY  
 CSTHLLLEHITTNEFDRAADKSGSALEPSVESVKTGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMVS  
 PTHMYFINCGDSRAVLCRNGQVCFSTQDHKPCNPVEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV  
 DGKGPTEQLVSPEPEVYEVRAEEDEFVVLACDGIWDVMSNEELCEFVKSRLLEVSDDLNVCNWWVDTCL  
 HKGSRDNMSVVLVCFSNAPKVSEEAVKRDELKHLSESRVEEIMQKSGEEGMPDLAHVMRILSAENIPNL  
 PPGGGLAGKRHVIEAVYSRLNPHKDNDGGAGDLEDLSLVAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

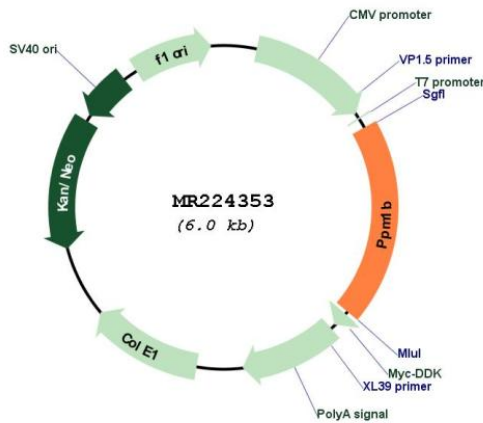
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_011151

<b>ORF Size:</b>	1170 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011151.2</a> , <a href="#">NP_035281.1</a>
<b>RefSeq Size:</b>	3280 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	19043
<b>UniProt ID:</b>	<a href="#">P36993</a>
<b>Cytogenetics:</b>	17 55.13 cM
<b>MW:</b>	43.2 kDa
<b>Gene Summary:</b>	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]