

## Product datasheet for **MG223142**

### **Ppm1b (NM\_001159496) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppm1b (NM_001159496) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppm1b
Synonyms:	PP2CB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG223142 representing NM\_001159496  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTGCATTTTTGGATAAACCCTAACTGAAAAGCACAATGCTCACGGTGCTGGGAATGGTCTCGCTT  
 ATGGCCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGATGCACACACAGCTGTTGTGGGTATTCC  
 TCACGGCTTGGACAACCTGGTCGTTTTTGCAGTTTATGACGGTCATGCTGGATCCCGAGTGGCAAATTAC  
 TGTTCAACACATCTATTAGAACACATCACCACCAATGAAGACTTCAGGGCAGCTGACAAAATCAGGCTCTG  
 CTCTCGAGCCTCAGTAGAAAGTGTGAAGACTGGTATCAGGACTGGCTTTTTGAAAATTGATGAATATAT  
 GCGTAACCTCTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCGACTGCAGTGGGCGTGATGGTCTCC  
 CCTACACACATGTAACCTCACTGTGGTGACTCTCGAGCTGTTCTGTGTAGGAACGGACAGGTCTGCT  
 TTTCTACCGAGGATCACAAACCTTGTAAATCCAGTGGAGAAGGAGCGCATCCAAAACGAGGAGGCAGTGT  
 GATGATCCAGCGTGTGAACGGCTCACTAGCAGTGTCTCGGCTCTGGGGACTATGACTACAAGTGTGTG  
 GATGGCAAGGGCCCTACAGAGCAGCTTGTTCCTCAGAGCCTGAGGTTTATGAGATTGTGAGAGCAGAAG  
 AGGATGAGTTTGTCTGCTTGGCCTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT  
 TGTTAAGTCTAGGCTTGGGTGTCGGACGACCTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA  
 CATAAGGGAAGTCGAGATAACATGAGTGTGTATTAGTTTGTCTTTCAAATGCCCAAGGTCTCAGAGG  
 AAGCCGTGAAGAGAGATTAGAGTTGGATAAGCACTTGGAAATCACGGGTTGAAGAAATCATGCAGAAGTC  
 TGGGGAGGAAGGAATGCCTGATCTTGCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCGAATTTA  
 CCTCCCGGGGAGGTCTCGCTGGCAAGCGCCATGTTATTGAAGCTGTTTATAGTAGACTTAATCCACACA  
 AAGCAATGATGGGGCTCCGATGAAGCAGAGGAAGGTGGATCACAGGGGAAATGGTGGAAAGCTCTCAG  
 GCAAAATGAGAGTTAACCATAGGGGAAACTACCGACAGCTGCTGGAGGAGATGCTGACTAGTTACAGGCTA  
 GCTAAAGTAGAGGAGAAGAGAGCCCGCTGACCCAGCGGCTGCAGCTGCTTCTCGAACAGTGTGGTG  
 GAAACCCAGTGGCAATGCAGGAGAGAGACTGAGGGTGGTCTGCTGGCCTAGACAGCCGTAATGAAGA  
 TGCAGGGACAAAGAGGAGTGTGAAAATATA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG223142 representing NM\_001159496  
 Red=Cloning site Green=Tags(s)

MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLDNWSFFAVYDGHAGSRVANY  
 CSTHLLLEHITTNEFDRAADKSGSALEPSVESVKTGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMVS  
 PTHMYFINCGDSRAVLCRNGQVCFSTQDHKPCNPVEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV  
 DGKGPTEQLVSPEPEVYIEVRAEDEFVVLACDGIWDVMSNEELCEFVKSRLEVSDDLNVNWNVVDTC  
 HKGSRDNMSVVLVCFSNAPKVSEEAVKRDELDKHLESRVEEIMQKSGEEMPDLAHVMRILSAENIPNL  
 PPGGGLAGKRHVIEAVYSRLNPHKDNDGASDEAEEGGSQGLVEALRQMRVNHVRGNYRQLLEEMLTSYRL  
 AKVEGEESPADPAAAAASSNSDGGNPVAMQERDTEGGPAGLDSRNEAGTKRSAENI

**TRTRPLE** – GFP Tag – V

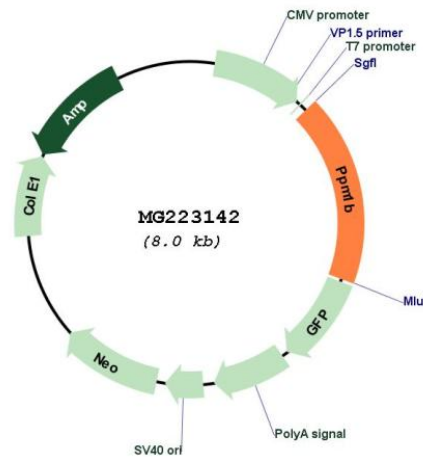
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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

**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]