

## Product datasheet for **MG224356**

### **Ppm1b (NM\_001159498) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ppm1b (NM\_001159498) 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)  
**ORF Nucleotide Sequence:** >MG224356 representing NM\_001159498  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGTGCATTTTTGGATAAACCCAAAACCTGAAAAGCACAATGCTCACGGTGTGGGAATGGTCTGCGTT  
 ATGGCCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGATGCACACACAGCTGTTGTGGGTATTCC  
 TCACGGCTTGGACAACTGGTCGTTTTTTCAGTTTATGACGGTCATGCTGGATCCCGAGTGGCAAATTAC  
 TGTTCAACACATCTATTAGAACACATCACCACCAATGAAGACTTCAGGGCAGCTGACAAAATCAGGCTCTG  
 CTCTCGAGCCTCAGTAGAAAGTGTGAAGACTGGTATCAGGACTGGCTTTTTGAAAATTGATGAATATAT  
 GCGTAACTTCTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCGACTGCAAGTGGCGTGATGGTCTCC  
 CCTACACACATGTACTTCATCAACTGTGGTGACTCTCGAGCTGTTCTGTGTAGGAACGGACAGGTCTGCT  
 TTTCTACCCAGGATCACAAACCTTGAATCCAGTGGAGAAGGAGCGCATCCAAAACGCAGGAGGCAGTGT  
 GATGATCCAGCGTGTGAACGGCTCACTAGCAGTGTCTCGGGCTCTGGGGACTATGACTACAAGTGTGTG  
 GATGGCAAGGGCCCTACAGAGCAGCTTGTTTCTCCAGAGCCTGAGGTTTATGAGATTGTGAGAGCAGAAG  
 AGGATGAGTTTGTGCTTGGCCTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT  
 TGTTAAGTCTAGGCTTGAGGTGTCGGACGACCTGGAGAATGTGTGCAATGGGTAGTGGACACTTGTTTA  
 CATAAGGGAAGTCGAGATAACATGAGTGTGATTAGTTTGTCTTTCAAATGCCCAAGGTCTCAGAGG  
 AAGCCGTGAAGAGAGATTACAGATTGGATAAGCACTTGGAAATCACGGGTTGAAGAAATCATGCAGAAGTC  
 TGGGGAGGAAGGAATGCCTGATCTTGCCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCGAATTTA  
 CCTCCCGGGGAGGTCTCGCTGGCAAGCGCCATGTTATTGAAGCTGTTTATAGTAGACTTAATCCACACA  
 AAGACAATGATGGGTTTTACCAACCTTCAATTGCATACAGTGACAATGTTTTCTATTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224356 representing NM\_001159498  
Red=Cloning site Green=Tags(s)

MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLDNWSFFAVYDGHAGSRVANY  
 CSTHLLLEHITTNEFDRAADKSGSALEPSVESVKTGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGMVMS  
 PTHMYFINCGDSRAVLCRNGQVCFSTQDHKPCNPVEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV  
 DGKGPTEQLVSPEPEVYEVVRAEEDEFVVLACDGIWDVMSNEELCEFVKSRLEVSDDLENVCNWWVDTCL  
 HKGSRDNMSVVLVCFSNAPKVSEEAVKRDELDKHLSESRVEEIMQKSGEEGMPDLAHVMRILSAENIPNL  
 PPGGGLAGKRHVIEAVYSRLNPHKDNDGFYQPSIAYSNDNVFLL

TRTRPLE - GFP Tag - V

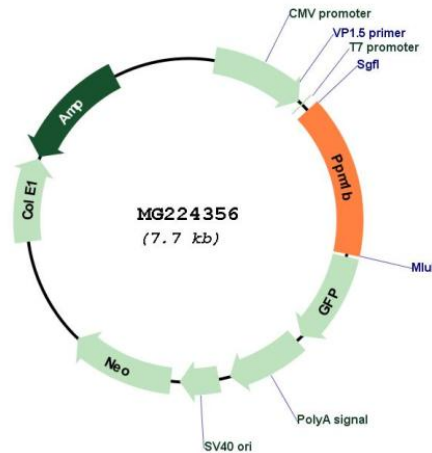
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001159498

<b>ORF Size:</b>	1179 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_001159498.2</a>
<b>RefSeq Size:</b>	1580 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	19043
<b>UniProt ID:</b>	<a href="#">P36993</a>
<b>Cytogenetics:</b>	17 55.13 cM
<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]