

## Product datasheet for **MR207220**

### **Ppm1f (NM\_176833) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppm1f (NM_176833) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppm1f
Synonyms:	1110021B16Rik; 4933427B07Rik; CaMKPase; mKIAA0015; Popx2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207220 representing NM\_176833  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCTCTGAGCCGCACAGAACAGCAGCCAGATGGCCTGTGACAGTGAGATCCCAGGCTTCTGGACG  
 CATTCTCCAAGACTTCCCAGCCCCACTGAGCCTGGAGAGCCCTTGCCATGGAAGTCCCAGGGACAGT  
 CCTGAGCCAGGAAGAAGTGGAGGCTGAGCTGATTGAGCTGGCATTGGGCTTCTGGGCAGCAGGAACGCT  
 CCCCCATCGTTTGTGTGGCTGTGACCCACGAGGCAATTTCCAGCTGCTGCAGACAGACCTTTCTGAAT  
 TTAAGAGGTTGCCTGAACAAGAGGAGGAGGAGGAAGAGGAGGAAGAAGAGAAAGCCCTCGTGACCTTACT  
 AGATGCCAAAGGCTGGCACGGAGCTTCTCAACTGCCTTTGAAAGTATGTAGCCAGTGGCAGAAGCAG  
 GTGCCGTTGACTGCCAGGCCCTCAGTGGCAGTGGTGGTCTCTATCCATGCCATCCGGAACACACGAC  
 GCAAGATGGAGGCCGACACGTGTCCTTCTGCTTTCAACCATCTCTTCGGCTTGTCTGACTCTGTGCA  
 CCGTGCCTACTTTGCTGTGTTTGTGGTATGGAGGCGTGGATGCAGCAAGGTATGCCTCTGTCCACGTG  
 CATAACCAATGCTTCTCACCAGCCAGAGCTGCGCACAAACCCTGCAGCAGCTCTCAAAGAAGCCTTCCGGC  
 TCACCGATGAGATGTTTCTCCAGAAAGCAAGCGAGAGCGACTGCAGAGCGGTACCACGGGTGTGTGTGC  
 ACTCATCGCGGGAGCAGCCCTGCATGTTGCCTGGCTTGGAGACTCCCAGGTATCCTCGGTACAGCAAGGA  
 CGGGTAGTGAAGCTGATGGAGCCGCACAAACCGGAGCGACAGGATGAGAAAGCACGAATTGAAGCCCTGG  
 GTGGCTTTGTTTCTCTATGGACTGTTGGAGAGTCAACGGGACCTGGCAGTGTCTAGAGCCATTGGGGA  
 TGTCTCCAGAAGCCCTATGTGTCTGGGAGGCCGATGCAGCATCCAGAGAGCTAACGGGCTCAGAGGAC  
 TACCTGTTGCTTGTGTGATGGTTTCTCGATGTTGTCCCCACCATGAAGTACAGGGTCTCGTCCATG  
 GCCACTTGTCTCAGGCACAAGGGCAATGGGATGCGTATTGCTGAGGAGCTGGTGGCTGTGGCCCGTACCG  
 GGGCTCCCATGACAACATTACAGTCATGGTGGTCTTCTTAGGGAGCCCTGGAGCTGCTAGAGGGTGGGA  
 GTCCAGGGGACAGGGGATGCCAGGCAGATGTAGGAAGCCAGGACTTGTCCACTGGCCTCTCAGAACTTG  
 AGATCAGTAATACCTCACAGAGAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207220 representing NM\_176833  
 Red=Cloning site Green=Tags(s)

MASGAAQNSSQMACDSEIPGFDAFLQDFPAPLSLESPLPWKVPGLVLSQEEVEAELIELALGFLGSRNA  
 PPSFAVAVTHEAISQLLQTDLSEFKRLPEQEEEEEEEEEEKALVTLDDAKGLARSFFNCLWKVCSQWQKQ  
 VPLTAQAPQWQWLVSIIHAIRNTRRKMEDRHVSLPAFNHLFGLSDSVHRYFAVFDGHHGVDAAARYASVHV  
 HTNASHQPELRTNPAALKEAFRLTDEMFLQKAKRERLQSGTTGVCAL IAGAALHVAVLWGDVILVQQG  
 RVVYKLMPEPKPERQDEKARIEALGGFVSLMDCWRVNGTLAVSRAIGDVFQKPYVSGEADAASRELTGSED  
 YLLLACDGFDFVPHHEVTGLVHGHLRHKGNMRIAELVAVARDRGSNDNITVMVFLREPLELLEGG  
 VQGTGDAQADVGSQDLSTGLSELEISNTSQRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

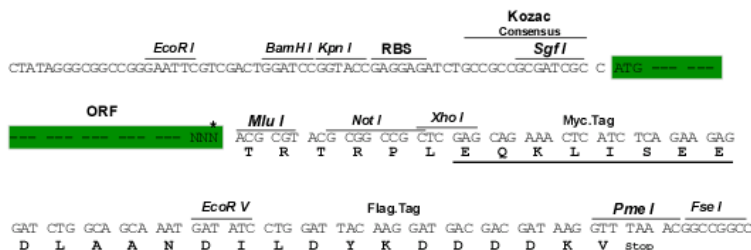
[https://cdn.origene.com/chromatograms/mm9078\\_a06.zip](https://cdn.origene.com/chromatograms/mm9078_a06.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_176833

ORF Size: 1356 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\\_176833.4](#), [NP\\_789803.1](#)

RefSeq Size: 4933 bp

RefSeq ORF: 1359 bp

Locus ID: 68606

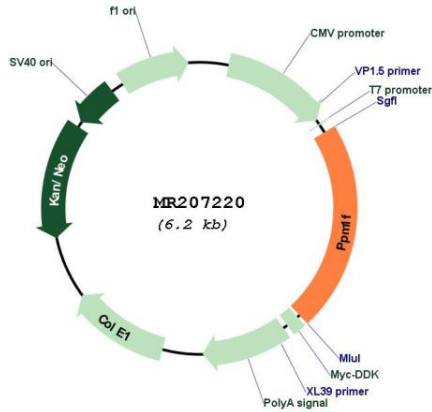
UniProt ID: [Q8CGA0](#)

Cytogenetics: 16 A3

**MW:** 50.1 kDa

**Gene Summary:** Dephosphorylates and concomitantly deactivates CaM-kinase II activated upon autophosphorylation, and CaM-kinases IV and I activated upon phosphorylation by CaM-kinase kinase. Promotes apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207220