

## Product datasheet for **MC205648**

### **Ppm1a (NM\_008910) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppm1a (NM_008910) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ppm1a
Synonyms:	2310003C21Rik; 2900017D14Rik; AI427932; AU017636; MMPa-2; MPPa-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC008595  
 GGGACCCGCCCGCCCGGCTGCTCCGGACCTAGAGGATCAAGTCATAATGGGAGCATTTTTAGACAAGC  
 CAAAGATGGAGAAGCATAATGCCAGGGGCAGGGGAATGGGTTACGATACGGCCTAAGCAGCATGCAAGG  
 TTGGCGAGTTGAAATGGAGGACGCACACACGGCTGTGATCGGTTTGCCAAGTGGACTTGAGACATGGTCA  
 TTCTTTGCTGTATATGATGGGCATGCTGGTTCAGGTTGCCAACTGCTGTGAGCACTTGTTAGATC  
 ACATCACCAATAACCAGGATTCAGAGGATCTGCAGGAGCACCTTCTGTGGAGAACGTAAGAATGGAAT  
 CAGAACAGGGTTTCTGGAGATTGATGAACACATGAGAGTTATGTCAGAGAAGAAACATGGTGCAGATAGA  
 AGCGGGTCAACAGCTGTGGGCGTCTTAATCTCTCCCAACATACTTATTTCACTTAAGTGGAGACTCGA  
 GAGGTTTACTTTGTAGGAATAGAAAAGTTCACCTCTTCACACAAGACCATAAACCAAGTAACCCGCTGGA  
 AAAAGAACGAATTGAGAAATGCAGGGGGCTCGGTGATGATTGAGCGTGTCAATGGCTCTCTGGCTGTATCG  
 AGGGCCCTTGGGATTTGATTACAAAATGTGTCCATGGAAAAGTCCCACAGAGCAGCTTGCTCCCCAG  
 AGCCCGAAGTCCATGATATTGAAAGTCTGAAGAAGATGACCAGTTCATCATCCTTGCATGCGATGGCAT  
 CTGGGACGTCATGGGAACGAAGAGCTCTGTGACTTTGTGAGATCCAGACTTGAAGTCACTGATGACCTT  
 GAGAAAAGTTTGAATGAAGTAGTCGACACCTGCTTGATAAGGGAAGTCGAGACAACATGAGTGTGATTT  
 TGATCTGTTTTCAAGTGCACCCAAAGTCTCGGCAGAGGGGTGAAGAAGGAGGGGAGCTGGACAAGTA  
 CCTGGAGAGCAGAGTAGAAGAAATCATAAAGAAGCAGGTGAAGAAGCGTCCCTGACTTAGTCCACGTGATG  
 CGCACGTTAGCCAGTGAGAACATCCCCAGCCTCCCACCAGGGGGTGAATTGGCAAGCAAGCGGAATGTA  
 TTGAAGCCGTTTACAATAGACTGAACCCCTTACAAAAATGACGACACTGATTCTGCGTCAACCGATGATAT  
 GTGGTAAAGCCGCTCACCCAGCCGTGGACTCACCTTCGCTGCAAAGGGGAAGCCAGCTCATCTTGCCG  
 AGCCTTTACCATCCATCACCGACTTCACAGGAGGGTCTGACACGGGTGAGGACTGCAGCTTCAGCGATGG  
 AACAGCTAGCCCAGAATGGATTTCTTTTTTATTGTAATTTGAGACTTATGTAAGCGTGATTTCAAAC  
 CGTAATTCATGTTGTAATCAGACTCCAGCAATTTTGTGTATGATTTGGTTTTGTAAGTGAATTT  
 GTCCTTGTACAAAAGTGTCAATTTAATTAATGAACTGCTTTAAAATCACTATCAGTGAATGATAAAGGAA  
 ATTTGGCTTGTGTGACACAACAGACATAGTCATGCTGTGTCTGGACTCGGTTGGGATAGGGAAAGCG  
 GCAGCCACATAGCTGCATGCTACGTGCACACGATTAGGAAGAATTCCAAAAGCTTACACAGCTGTACCC  
 AGGCTCATGGAACTGTCTGTTCGCGGAGGACTGGCTCACTGATACAGCCATCGCTCTCACCTGTCT  
 CTAGGATGTCCTCCTCGTAGCCAAGATATTGCAGCTGATCCTGTATATTCATGAGAGTATCTATCAAT  
 TTTGGGCTAACATGCCTTGATTCTTGCACCTCTTTATGAGTCTTACATTTAATTAATAATTGGTAAG  
 CAGCAGCTTCTACACAGTAGGAGACTGCCACATTTTTTCTATCATGACTGGCTGGGCTGCTGCTGT  
 TCCTAGTAAGATATTCCGAATTCATTTATCAATAAAGCTTGGTTTAAACAAACAAGAAAAAAAAAAAAAAA AAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_008910

**Insert Size:** 1149 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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: [BC008595](#), [AAH08595](#)

RefSeq Size: 2033 bp

RefSeq ORF: 1149 bp

Locus ID: 19042

UniProt ID: [P49443](#)

Cytogenetics: 12 C3

**Gene Summary:** Enzyme with a broad specificity. Negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear export of the SMADs and termination of the TGF-beta-mediated signaling (By similarity). Dephosphorylates PRKAA1 and PRKAA2. 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]