

## Product datasheet for **MR221793**

### **Ptprr (NM\_001161838) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptprr (NM_001161838) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptprr
Synonyms:	Gmcp1; mPTP213; PTP-SL; PTPBR7; RPTPRR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR221793 representing NM\_001161838  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAGGAGAGCGGTCCGCTTCCCTGCGCTGTGCCTGCTTCTTAATCTTCATGCTGCAGGTTGTTTTCCA  
 GAAACAATGATCACTTTTTGGCTATTCGTCAAAAGAAGAGTTGGAAGCCGGTGTTCAATTTATGACCATTC  
 ACAGGATATCAAGAAGAGCCTGGACATCGCACAAAGAGGCATACAAACATAACTACCACTCCCCTCCGAA  
 GTTCAAATAAGCAAACATCACCAGATTATTAATTCAGCATTTCCTAGACCTGCATATGACCCGTCTCTTA  
 ATCTGTTGGCTGAGTCTGATCAAGATCTTGAAATAGAAAATCTCCCAATTCAGCAGCAAATGTGATTGT  
 GGTGACACTGCAAATGGATATAACCAAGCTGAACATAACCCTGCTTCGGATCTTCCGCCAAGGAGTAGCT  
 GCAGCCCTGGGACTTTACCTCAGCAAGTGCACATTAACCGGCTCATTGAAAAGAAGAACCAGGTTGAGT  
 TGTTTGTGTCTCCCGAAACCGAAACAGGAGAAACCGAGGCCCTGCAGGCTGAGGAAGTCTGCGTTC  
 CCTCAATGTGGATGGTTGCATCAGAGTTTACCACAGTTTGAATTACAGACGTCGCCCCGAGAAAAAT  
 GTTTTACAAGGGCAGCACGAAGCAGACAAGATCTGGAGCAAAGAAGGATTTACGCTGTCGTCATCTTCC  
 TCAGCATCTTTATCATATAGTAACCTGTTTGATGATTATTTACAGGTTAAAAGAAGGCTTCAGCTTTC  
 CTTAAGACAAGATAAAGAGAAAAACCAGGAGATCCACCTATCACCATTGCACGGCAGCAAGCACAATCG  
 GAGGCCAAGACGACCCACAGCATGGTCCAGCCGATCAGGCGCCAAGGTGCTGAACGTGGTTGTGGACC  
 CTCAAGGCCAATGCACCTCTGAGATTCGAAACAGCACCTCCACCTCTGTCTGCCCTTCTCCCTTCAGAA  
 GAAGCCCATAGGACTCCAGGAGCGACGAGGTTCCAATGTATCTCTTACGCTGGACATGAGTAGCCTGGGC  
 AGTGTGGAACCCTTTGTGGCCGTCTCAACCCCGGGAGAAGGTAGCCATGGAATACCTGCAGTCAGCCA  
 GCCGAGTTCTCACACGGTCACAGCTGAGGGACGTCGTGGCAAGTCCCACCTACTTCAAAGTGAATTCAT  
 GGAAATACCAATGAATTTTGTGGATCCCAAAGAAATTGATATTCCACGTCACGGAACAAAAATCGTTAT  
 AAGACCATTTTGCCAAATCCCCTCAGCAGAGTGTGCTTAAGACCAAAAAATAAACCATTCTTGAGTA  
 CTTACATAAATGCTAACTATATTCGGGGCTACAGTGGTAAGGAGAAAGCCTTCATTGCCACCCAGGGCCC  
 CATGATCAACACTGTGAATGACTTCTGGCAGATGGTGTGGCAAGAAGACAGTCCCCTGATTGTGATGATC  
 ACGAAACTCAAAGAGAAAAATGAGAAATGTGTGCTCTACTGGCCAGAAAAGAGAGGGATTTACGGCAAGG  
 TTGAGGTTCTGGTCACCGGTGTGACCGAATGTGATAACTACACCATCCGCAACCTCGTCTTAAAGCAAGG  
 AAGTCACACCCCAACATGTGAAGCACTACTGGTACACTTCATGGCCGGATCATAAGACTCCAGACAGTGCC  
 CAGCCCCCTCTGCAGCTCATGTTGGATGTGGAAGAAGACAGACTGGCCTCTGAAGGCCGAGGGCCTGTGG  
 TTGTCCACTGCAGTGCAGGGATTGGGAGAACTGGGTGTTTCATCGCTACATCCATTGGCTGTCAACAATT  
 GAAAGAAGAAGGAGTTGTAGACGCACTAAGTATTGTCTGCCAGCTTCGTGTAGACAGGGGTGGTATGGTC  
 CAAACCAGCGAGCAGTATGAATTTGTGACCATGCTCTGTGCCTGTTTCGAGAGCAGACTTTCACCAGAAA  
 CTGTGCGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221793 representing NM\_001161838  
 Red=Cloning site Green=Tags(s)

MRRAVGFPALCLLLNLHAAGCFSRNNDHFLAIRQKKSWKPVFIYDHSQDIKSLDIAQEAYKHNYHSPSE  
 VQISKHHQIINSAFPRPAYDPSLNLLAESDQDLEIENLPIAANVIVVTLQMDITKLNITLLRIFRQGVA  
 AALGLLPQVHINRLIEKKNQVELFVSPGNRKPGETQALQAEVLRSLNVDGLHQSLPQFGITDVAPEKN  
 VLQGQHEADKIWSKEGFYAVVIFLSIFIIIVTCLMIIYRLKERLQLSLRQDKEKNQEIHLSPIARQQAQS  
 EAKTTHSMVQPDQAPKVLNVVDPQGQCTPEIRNSTSTSVCPSPFRMKPIGLQERRGSNVSLTLDMSLGL  
 SVEPFVAVSTPREKVAMEYLQSASRVLTRSQLRDVVASSHLLQSEFMEIPMNFVDPKEIDIPRHGTKNRY  
 KTILPNPLSRVCLRPKNITDSLSTYINANYIRGYSKKEAFIATQGPMINTVNDWFQMVWQEDSPVIVMI  
 TKLKEKNEKCVLYWPEKRGYKVEVLVTGVTEDNYTIRNLVLKQGSHTQHVKHYYWTSWPDHKTPDSA  
 QPLLQLMLDVEEDRLASEGRPVVVHCSAGIGRTGCFIATSIGCQQLKEEGVVDALSIVCQLRVDRGMV  
 QTSEQYEFVHHALCLFESRLSPETVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

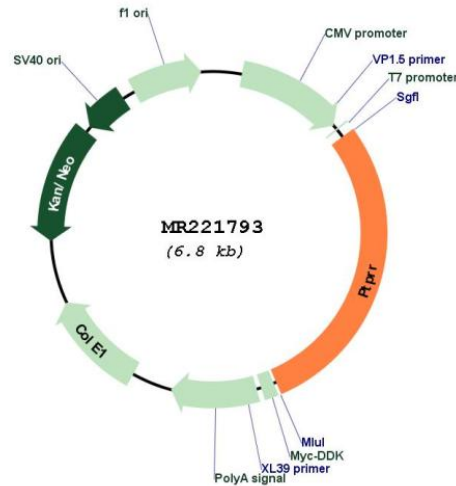
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001161838

ORF Size: 1968 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 Size: 2817 bp

RefSeq ORF: 1239 bp

Locus ID: 19279

UniProt ID: [Q62132](#)

Cytogenetics: 10 D2

MW: 47 kDa

**Gene Summary:** Sequesters mitogen-activated protein kinases (MAPKs) such as MAPK1, MAPK3 and MAPK14 in the cytoplasm in an inactive form. The MAPKs bind to a dephosphorylated kinase interacting motif, phosphorylation of which by the protein kinase A complex releases the MAPKs for activation and translocation into the nucleus. Isoform gamma may have a role in patterning and cellular proliferation of skeletal elements in the precartilaginous/cartilaginous skeleton.[UniProtKB/Swiss-Prot Function]