

## Product datasheet for **MR221794**

### **Ptprr (NM\_001161839) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptprr (NM_001161839) 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:

>MR221794 representing NM\_001161839  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGAGAGCGGTCCGCTTCCCTGCGCTGTGCCTGCTTCTTAATCTTCATGCTGCAGGTTGTTTTCCA  
GAAACAATGATCACTTTTTGGCTATTTCGTCAAAGAAGAGTTGGAAGCCGGTGTTCATTTATGACCATT  
ACAGGATATCAAGAAGAGCCTGGACATCGCACAAAGAGGCATACAAACATAACTACCACTCCCTCCGAA  
GTTCAAATAAGCAAACATCACCAGATTATTAATTCAGCATTTCCTAGACCTGCATATGACCCGTCTCTTA  
ATCTGTTGGCTGAGTCTGATCAAGATCTTGAAATAGAAAATCTCCAATTCAGCAGCAAATGTGATTGT  
GGTGACACTGCAAATGGATATAACCAAGCTGAACATAACCCTGCTTCGGATCTTCCGCCAAGGAGTAGCT  
GCAGCCCTGGGACTCTTACCTCAGCAAGTGCACATTAACCGGCTCATTGAAAAGAAGAACCAGGTTGAGT  
TGTTTGTGTCTCCCGAAACCGAAACAGGAGAAACGCAGGCCCTGCAGGCTGAGGAAGTCTCGCTTC  
CCTCAATGTGGATGGTTTGCATCAGAGTTTACCACAGTTTGAATTACAGACGTCGCCCCGAGAAAAAT  
GTTTTACAAGGGCAGCACGAAGCAGACAAGATCTGGAGCAAAGAAGGATTTACGCTGTCGTCATCTTCC  
TCAGCATCTTTATCATATAGTAACCTGTTTGTGATTATTTACAGGTTAAAAGAAGGCTTCAGCTTTC  
CTTAAGACAAGATAAAGAGAAAAACCAGGAGATCCACCTATCACCATTCAGCAGCAAGCACAATCG  
GAGGCCAAGACGACCCACAGCATGGTCCAGCCGATCAGGCGCCAAGGTGCTGAACGTGGTTGTGGACC  
CTCAAGGCCAATGCACCTCTGAGATTCGAAACAGCACCTCCACCTCTGTCTGCCCTTCTCCCTCAGAAT  
GAAGCCCATAGGACTCCAGGAGCGACGAGGTTCCAATGTATCTTACGCTGGACATGAGTAGCCTGGGC  
AGTGTGGAACCCTTTGTGGCCGTCTCAACCCCGGGAGAAGGTAGCCATGGAATACCTGCAGTCAGCCA  
GCCGAGTTCTCACACGGTCACAGCTGAGGGACGTCGTGGCAAGTCCCACCTACTTCAAAGTGAATTCAT  
GGAAATACCAATGAATTTTGTGGATCCCAAAGAAATTGATATTCCACGTCACGGAACAAAAATCGTTAT  
AAGACCATTTTGCCAAATCCCCTCAGCAGAGTGTGCTTAAGACCAAAAAATATAACCGATTCCCTTGAGTA  
CTTACATAAATGCTAACTATATTCGGGGCTACAGTGGTAAGGAGAAAGCCTTCATTGCCACCCAGGGCCC  
CATGATCAACACTGTGAATGACTTCTGGCAGATGGTGTGGCAAGAAGACAGTCCCCTGATTGTGATGATC  
ACGAAACTCAAAGAGAAAAATGAGAAATGTGTGCTCTACTGGCCAGAAAAGAGAGGGATTTACGGCAAGG  
TTGAGGTTCTGGTCACCGGTGTGACCGAATGTGATAACTACACCATCCGCAACCTCGTCTTAAAGCAAGG  
AAGTCACACCCAAACATGTGAAGCACTACTGGTACACTTCATGGCCGGATCATAAGACTCCAGACAGTGCC  
CAGCCCCCTCTGCAGCTCATGTTGGATGTGGAAGAAGACAGACTGGCCTCTGAAGGCCGAGGGCCTGTGG  
TTGTCCACTGCAGTGCAGGGATTGGGAGAACTGGGTGTTTCATCGCTACATCCATTGGCTGTCAACAATT  
GAAAGAAGAAGGAGTTGTAGACGCACTAAGTATTGTCTGCCAGCTTCGTGTAGACAGGGGTGGTATGGTC  
CAAACCAGCGAGCAGTATGAATTTGTGCACCATGCTCTGTGCCTGTTTCGAGAGCAGACTTTCACCAGAAA  
CTGTGCGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221794 representing NM\_001161839  
 Red=Cloning site Green=Tags(s)

MRAVGFALCLLLNLHAAGCFSRNDHFLAIRQKKS WKPVFIYDHSQDIKSLDIAQEAYKHNYHSPSE  
 VQISKHHQIINSAFPRPAYDPSLNLLAESDQDLEIENLPIAANVIVVTLQMDITKLNITLLRIFRQGVA  
 AALGLLPQVHINRLIEKKNQVELFVSPGNRKPGETQALQAEVLRSLNVDGLHQSLPQFGITDVAPEKN  
 VLQSQHEADKIWSKEGFYAVVIFLSIFIIIVTCLMIIYRLKERLQLSLRQDKEKNQEIHLSPIARQQAQS  
 EAKTTHSMVQPDQAPKVLNVVDPQGQCTPEIRNSTSTSVCPSPFRMKPIGLQERRGSNVSLTLDMSLGL  
 SVEPFVAVSTPREKVAMEYLQSASRVLTRSQLRDVAVSSHLLQSEFMEIPMNFVDPKEIDIPRHGTKNRY  
 KTILPNPLSRVCLRPKNITDSLSTYINANYIRGYSKKEAFIATQGPMINTVNDWFQMVWQEDSPVIVMI  
 TKLKEKNEKCVLYWPEKRGYGVKVEVLVTGVTEDNYTIRNLVLKQGSHTQHVKHYYWTSWPDHKTPDSA  
 QPLLQLMLDVEEDRLASEGRPVVVHCSAGIGRTGCFIATSIGCQQLKEEGVVDALSIVCQLRVDRGMV  
 QTSEQYEFVHHALCLFESRSPETVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

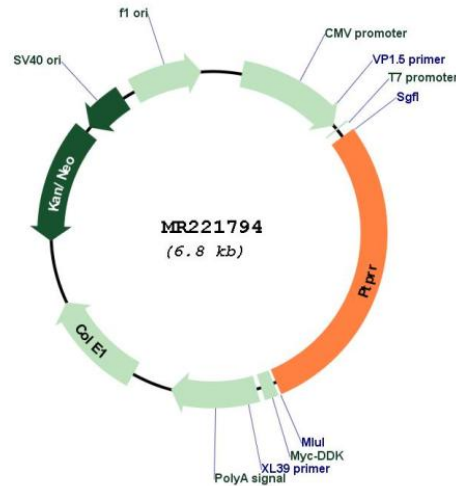
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001161839

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: 2508 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]