

## Product datasheet for **MC216972**

### **PPP5c (NM\_011155) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PPP5c (NM_011155) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP5c
Synonyms:	AU020526; PP5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216972 representing NM\_011155  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGATGGCGGAGGGCGAGCGGACTGAGTGTGCTGAGACCCCCGGGACGAACCCCCGGCCGATGGCA  
 CTCTGAAGCGGGCAGAGGAGCTCAAGACACAGGCCAACGACTACTTCAAAGCCAAGGACTACGAGAACGC  
 GATCAAGTTCTACAGTCAGGCCATCGAGTTGAACCCCGGCAATGCCATCTACTATGGCAACCGCAGCCTG  
 GCCTACCTGCGCACTGAGTGCTATGGCTATGCACTGGGCGACGCCACACGGGCCATCGAGCTTGACAAGA  
 AGTACATCAAAGGCTACTACCGCCGGGCGGCCAGCAACATGGCACTGGGCAAGTCCGGGCTGCCCTGCG  
 TGACTACGAGACGGTGGTAAAGTGAAGCCTAATGACAAGGATGCCAAGATGAAGTACCAGGAGTGCAGC  
 AAGATTGTGAAGCAGAAGGCCTTTGAGAGGGCCATTGCGGGTACGAGCACAGACGCTCTGTCGTGGACT  
 CTCTGGACATTGAAAGCATGACCATTGAAGATGAGTACAGCGGGCCCAAGCTTGAGGATGGCAAAGTGC  
 AATCACCTTCATGAAAGACCTCATGCAAGTGTACAAGGATCAGAAGAACTGCACCGGAAGTGCCTAC  
 CAGATCCTAGTACAGGTGAAAGAAGTCCCTGCAAGCTGAGCACGCTGGTGGAGACGACGCTGAAAGAGA  
 CAGAGAAGATTACAGTGTGCGGGGACACCCATGGCCAGTTCTACGACCTCCTCAACATATTTGAGCTCAA  
 CGGTTTACCCTCAGAGACCAACCCCTATATATTTAATGGCGATTTTGTGGACCGTGGTTCCTTCTCCGTT  
 GAAGTGATCCTCACCCCTCTTCGGCTTAAAGTCTCTGTATCCAGATCATTCCATCTACTTCGAGGCAACC  
 ACGAGACAGACAACATGAACCAGATCTACGGGTTTCGAGGGCGAGGTGAAGGCCAAGTACACAGCCCAGAT  
 GTATGAGCTCTTCAGCGAGGTGTTTCAGTGGCTCCGCTGGCGCAGTGTATCAATGGCAAAGTGTGATC  
 ATGCACGGAGGCCTATTCAGCGAAGATGGTGTCACTCTGGATGACATCCGAAAGATTGAGCGGAATCGGC  
 AGCCCCAGACTCAGTCCCATGTGTGACCTGCTGTGGTCAAGTCCAGCCACAGAATGGGCGCTCCGT  
 CAGCAAGCGTGGTGTGAGTTGCCAGTTTGGGCTGATGTACCAAGGCCTTCTGGAGGAGAATCAACTG  
 GACTATATCATCCGACCCATGAAGTCAAAGCCGAGGGCTACGAGGTGGCCCATGGTGGCCGCTGTGTCA  
 CTGTCTTTTCTGCCCAACTATTGTGACCAGATGGGAAACAAAGCCTCTACATCCACCTCCAGGGCTC  
 CGACCTGCGGCCAGTTCACCAATTCACAGCAGTGCCTCACCCCAATGTCAAGCCATGGCATAACGCC  
 AACACGCTTCTGCAGCTAGGAATGAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_011155

**Insert Size:** 1500 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:** [NM\\_011155.2](#), [NP\\_035285.2](#)

**RefSeq Size:** 2084 bp

**RefSeq ORF:** 1500 bp

**Locus ID:** 19060

**UniProt ID:** [Q60676](#)

**Cytogenetics:** 7 9.15 cM

**Gene Summary:** Serine/threonine-protein phosphatase that dephosphorylates a myriad of proteins involved in different signaling pathways including the kinases CSNK1E, ASK1/MAP3K5, PRKDC and RAF1, the nuclear receptors NR3C1, PPARG, ESR1 and ESR2, SMAD proteins and TAU/MAPT. Implicated in wide ranging cellular processes, including apoptosis, differentiation, DNA damage response, cell survival, regulation of ion channels or circadian rhythms, in response to steroid and thyroid hormones, calcium, fatty acids, TGF-beta as well as oxidative and genotoxic stresses. Participates in the control of DNA damage response mechanisms such as checkpoint activation and DNA damage repair through, for instance, the regulation ATM/ATR-signaling and dephosphorylation of PRKDC and TP53BP1. Inhibits ASK1/MAP3K5-mediated apoptosis induced by oxidative stress. Plays a positive role in adipogenesis, mainly through the dephosphorylation and activation of PPARG transactivation function. Also dephosphorylates and inhibits the anti-adipogenic effect of NR3C1. Regulates the circadian rhythms, through the dephosphorylation and activation of CSNK1E. May modulate TGF-beta signaling pathway by the regulation of SMAD3 phosphorylation and protein expression levels. Dephosphorylates and may play a role in the regulation of TAU/MAPT. Through their dephosphorylation, may play a role in the regulation of ions channels such as KCNH2. [UniProtKB/Swiss-Prot Function]