

Product datasheet for **MR208000**

Ppp5c (NM_011155) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp5c (NM_011155) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppp5c
Synonyms:	AU020526; PP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208000 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGATGGCGGAGGGCGAGCGGACTGAGTGTGCTGAGACCCCCGGGACGAACCCCCGGCCGATGGCG
 CTCTGAAGCGGGCAGAGGAGCTCAAGACACAGGCCAACGACTACTTCAAAGCCAAGGACTACGAGAACGC
 GATCAAGTTCTACAGTCAGGCCATCGAGTTGAACCCCGGCAATGCCATCTACTATGGCAACCGCAGCCTG
 GCCTACCTGCGCACTGAGTGCTATGGCTATGCACTGGGCGACGCCACACGGGCCATCGAGCTTGACAAGA
 AGTACATCAAAGGCTACTACCGCCGGGCGGCCAGCAACATGGCACTGGGCAAGTCCGGGCTGCCCTGCG
 TGACTACGAGACGGTGGTAAAGTGAAGCCTAATGACAAGGATGCCAAGATGAAGTACCAGGAGTGCAGC
 AAGATTGTGAAGCAGAAGGCCTTTGAGAGGGCCATTGCAGGTGACGAGCACAGACGCTCTGTCGTGGACT
 CTCTGGACATTGAAAGCATGACCATTGAAGATGAGTACAGCGGGCCCAAGCTTGAGGATGGCAAAGTGC
 AATCACCTTCATGAAAGACCTCATGCACTGGTACAAGGATCAGAAGAACTGCACCGGAAGTGCCTAC
 CAGATCCTAGTACAGGTGAAAGAAGTCCCTGCAAGCTGAGCACGCTGGTGGAGACGACGCTGAAAGAGA
 CAGAGAAGATTACAGTGTGCGGGGACCCCATGGCCAGTTCTACGACCTCCTCAACATATTTGAGCTCAA
 CGGTTTACCCTCAGAGACCAACCCCTATATATTTAATGGCGATTTTGTGGACCGTGGTTCCTTCTCCGTT
 GAAGTGATCCTCACCCCTCTTCGGCTTAAAGTCTGTATCCAGATCATTCCATCTACTTCGAGGCAACC
 ACGAGACAGACAACATGAACCAGATCTACGGGTTTCGAGGGCGAGGTGAAGGCAAGTACACAGCCAGAT
 GTATGAGCTCTTCAGCGAGGTGTTTCAGTGGCTCCGCTGGCGCAGTGTATCAATGGCAAAGTGTGATC
 ATGCACGGAGGCCTATTCAGCGAAGATGGTGTCACTCTGGATGACATCCGAAAGATTGAGCGGAATCGGT
 AGCCCCAGACTCAGTCCCATGTGTGACCTGTGTGGTACAGTCCCAGCCACAGAATGGGCGCTCCGT
 CAGCAAGCGTGGTGTGAGTTGCCAGTTTGGGCCTGATGTACCAAGGCCTTCTGGAGGAGAATCAACTG
 GACTATATCATCCGACCCATGAAGTCAAAGCCGAGGGCTACGAGGTGGCCCATGGTGGCCGCTGTGTCA
 CTGTCTTTTCTGCCCCAACTATTGTGACCAGATGGGAAACAAAGCCTCTACATCCACCTCCAGGGCTC
 CGACCTGCGGCCAGTTCACCAATTCACAGCAGTGCCTCACCCCAATGTCAAGCCCATGGCATAACGCC
 AACACGCTTCTGCAGCTAGGAATGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208000 protein sequence
 Red=Cloning site Green=Tags(s)

MMAEGERTECAETPRDEPPADGALKRAEELKQANDYFKAKDYENAIKFYSQAIELNPGNAIYYGNRSL
 AYLRTECYGYALGDATRAIELDKKYIKGYRRAASNALGKFRAALRDYETVVVKPNDKDAKMKYQEC
 KIVKQKAFERAIAGDEHRRSVVDSLIE SMTIEDEYSGPKLEDGKVTITFMKDLMQWYKDQKLLHRKCA
 YQILVQVKEVLCKLSTLVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFV
 EVILTLFGFKLLYPDFHLLRGNHETDNMNIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQINGKVL
 I MHGGLFSEDGVTLDIRKIERNRQPPDSGPMCDLLWSDPQPQNGRSVSKRGVSCQFQPDVTKAFLEENQL
 DYIIRSHEVKAEGYEVAGGRCVTVFSAPNYCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYA
 NTLQLGMM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011155

ORF Size: 1500 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_011155.1](#), [NP_035285.1](#)

RefSeq Size: 2084 bp

RefSeq ORF: 1500 bp

Locus ID: 19060

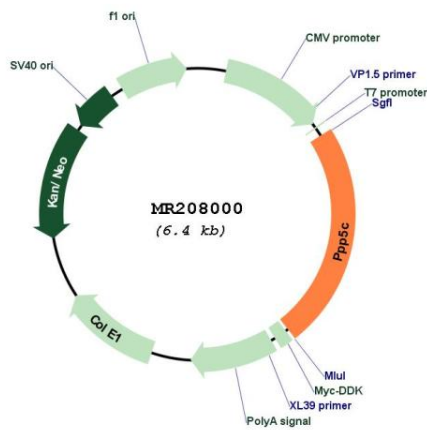
UniProt ID: [Q60676](#)

Cytogenetics: 7 9.15 cM

MW: 56.8 kDa

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]

Product images:



Circular map for MR208000