

Product datasheet for **RC238457**

PP5 (PPP5C) (NM_001204284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PP5 (PPP5C) (NM_001204284) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP5C
Synonyms:	PP5; PPP5; PPT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238457 representing NM_001204284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGATGGCGGAGGGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAG
 CTCTGAAGCGGGCAGAGGAGCTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGC
 CATCAAGTTCTACAGCCAGGCCATCGAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTG
 GCCTACCTGCGCACTGAGTGCTATGGTACGCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGA
 AGTACATCAAGGGTTATTACCGCCGGGCTGCCAGCAACATGGCACTGGGCAAGTCCGGGCCGCGTGGC
 AGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAGGATGCCAAAATGAAATACCAGGAGTGAAC
 AAGATCGTGAAGCAGAAGGCCTTTGAGCGGGCCATCGCGGGCAGCAGCACAAGCGCTCCGTGGTGGACT
 CGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCAAGCTTGAAGACGGCAAAGTGC
 AATCAGTTTCATGAAGGAGCTCATGCAAGTGTACAAGGACCAGAAGAACTGCACCGGAAATGTGCCTAC
 CAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTCGAGC
 TCAACGGTTTACCTCGGAGACCAACCCCTATATATTTAATGGTACTTTGTGGACCGAGGCTCCTTCTC
 TGTAGAAGTGATCCTCACCCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTACCTCCTTCGAGGC
 AACACGAGACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAAGGCAAGTACACAGCCC
 AGATGTACGAGCTCTTACGAGGTGTTGAGTGGCTCCCGTTGGCCAGTGCATCAACGGCAAAGTGC
 GATCATGCACGGAGGCCGTTTCAAGTGAAGCGGTGTCACCCTGGATGACATCCGAAAATTGAGCGGAAT
 CGACAACCCCAAGATTCAGGGCCATGTGTGACCTGCTGCTGGTCCAGTCCACAGCCACAGAACGGGCGCT
 CGATCAGCAAGCGGGCGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT
 CCTGGACTATATCATCCGACGCCAGCAAGTCAAGGCCGAGGGCTACGAGGTGGTCCAGGAGGCCGCTGT
 GTCACCGTCTTCTGCCCCAACTACTGCGACAGATGGGGAACAAAGCCTCCTACATCCACCTCCAGG
 GCTCTGACCTACGGCCTCAGTTCACACAGTTCACAGCAGTGCCTCATCCCAACGTCAAGCCCATGGCCTA
 TGCCAACAGCTGCTGCAGCTAGGAATGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238457 representing NM_001204284
 Red=Cloning site Green=Tags(s)

MMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSL
 AYLRTECYGYALGDATRAIELDKKIKGYRRAASNMLGKFRAALRDYETVVVKVPHDKDAKMKYQECN
 KIVKQKAFERIAAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDKLHRKAY
 QTEKITVCGDTHGQFYDLLNIFELNGLPSETNPIYFNGDFVDRGSFSVEVILTLFGFKLLYPDFHLLRG
 NHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQINGKVLIMHGGLFSEDGVTLDLDIRKIERN
 RQPPDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENLDYIIRSHEVKAEGYEVAHGGRC
 VTFV SAPNYCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

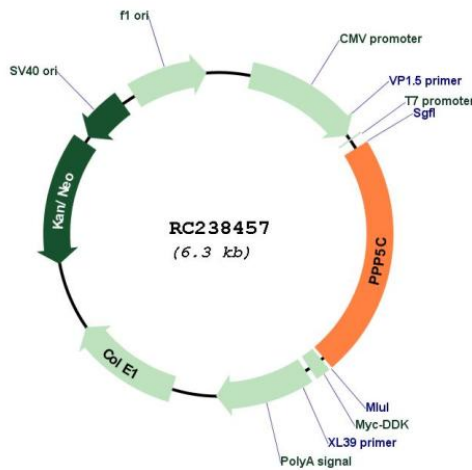
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001204284

ORF Size: 1431 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_001204284.2](#)

RefSeq Size: 2166 bp

RefSeq ORF: 1434 bp

Locus ID: 5536

Cytogenetics: 19q13.32

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: MAPK signaling pathway

MW: 54.9 kDa

Gene Summary: This gene encodes a serine/threonine phosphatase which is a member of the protein phosphatase catalytic subunit family. Proteins in this family participate in pathways regulated by reversible phosphorylation at serine and threonine residues; many of these pathways are involved in the regulation of cell growth and differentiation. The product of this gene has been shown to participate in signaling pathways in response to hormones or cellular stress, and elevated levels of this protein may be associated with breast cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]