

Product datasheet for **RR202664**

PPP2CB (NM_017040) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2CB (NM_017040) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2CB
Synonyms:	Pp2a2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202664 representing NM_017040 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACAAGGCGTTCACCAAGGAGCTGGACCAGTGGGTGGAGCAGCTGAACGAGTGTAAAGCAGCTGA
ACGAGAACCAAGTGGGACGCTGTGCGAGAAGGCTAAGGAAATTTAACAAAAGAATCAAATGTACAAGA
GGTTCGCTGTCTGTACCGTCTGTGGAGATGTGCATGGCCAATCCATGACCTTATGGAACCTTCAGA
ATTGGTGGAAAATCACCAGACACCAACTATCTATTCATGGGTGACTATGTAGACAGAGGATATTATCTG
TGGAGACCGTGACTCTTCTGTAGCATTAAAGGTGCGCTATCCAGAGCGTATCACAAATTTGCGAGGAAA
TCATGAAAGCCGGCAGATCACACAAGTATATGGCTTTTATGATGAATGCCTACGAAAGTATGGAAACGCC
AACGTGTGGAAATACTTTACAGATCTCTTTGATTATCTTCCACTTACAGCTTTAGTAGATGGACAGATAT
TCTGCCTCCACGGTGGCCTCTCTCCATCCATAGATACACTGGATCACATAAGAGCCCTGGATCGCTTACA
GGAAGTCCACATGAGGGCCCAATGTGTGATCTTTATGGTCAGATCCAGATGACCGTGGTGGCTGGGGC
ATTTCTCCACGTGGTGTGGCTACACATTTGGACAAGACATTTCTGAAACATTTAACCATGCCAACGGCC
TCACACTGGTGTCCCGTGTCCAGCTTGTAAATGGAAGGATATAATTGGTCCATGATCGGAATGTGGT
CACCATTTTTAGTGCACCAATTAAGTCTACCGCTGTGGGAACCGGCTGCTATCATGGAATTAGACGAC
ACTTTAAATACTCTTTCTTCTCAGTTTGACCCAGCACCTCGTCGTGGAGAGCCTCATGTGACCCGGCGCA
CCCCAGACTACTTCTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202664 representing NM_017040
Red=Cloning site Green=Tags(s)

MDDKAFTKELDQWVEQLNECKQLNENQVRTLCEKAKEILTKESNVQEVRCPVTVCGDVHGQFHDLMELFR
 IGGKSPDTNYLFMGDYVDRGYYSVETVLLVALKVRYPERITILRGNHESRQITQVYGFYDECLRKYGNA
 NVWKYFTDLFDYLPALTALVDGQIFCLHGGLSPSIDTLDHIRALDRLQVEPHEGPMCDLLWSDPDRGGWG
 ISPRGAGYTFGQDISETFNHANGTLVSRHQQLVMEGYNWCHDRNVVTFISAPNYCYRCGNQAAIMELDD
 TLKYSFLQFDPAPRRRGEHVTRTRTPDYFL

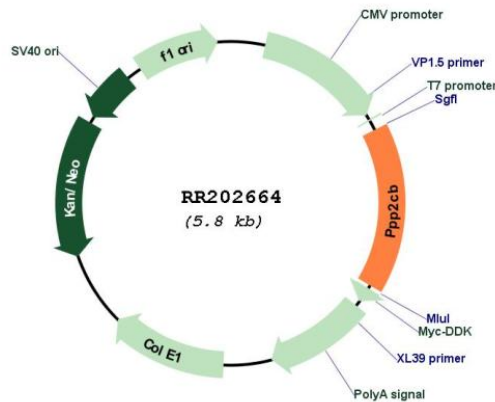
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017040

ORF Size: 927 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:	<ol style="list-style-type: none">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_017040.2
RefSeq Size:	1843 bp
RefSeq ORF:	930 bp
Locus ID:	24673
UniProt ID:	P62716
Cytogenetics:	16q12.3
MW:	35.6 kDa
Gene Summary:	catalytic subunit of multimeric serine/threonine phosphatase; involved in insulin signal transduction; negatively regulates the Ras/MAP kinase pathway by binding to Shc, inhibiting tyrosine phosphorylation [RGD, Feb 2006]