

Product datasheet for **RC238660**

PPP3CB (NM_001289968) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CB (NM_001289968) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP3CB
Synonyms:	CALNA2; CALNB; CNA2; PP2Bbeta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238660 representing NM_001289968
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCCCGGAGCCGGCCCGGGCTGCACGCCCCACCCCGCCCGCCCGCCCGCCCTCCCGGGGCTG
 ACCGCGTCGTCAAAGCTGCCCTTCCCCCAACACATCGCTTGACATCTGAAGAAGTATTGATTTGGA
 TGGGATACCCAGGGTTGATGTTCTGAAGAACCCTTGGTAAAAGAAGGTCGAGTAGAGAAATTTGCC
 CTTAGAATTATCAATGAGGGTGCTGCCATCCTTCGGAGAGAGAAAACCATGATAGAAGTAGAAGCTCCAA
 TCACAGTGTGGTGACATCCATGGCCAATTTTTTATCTGATGAACTTTTTGAAGTAGGAGGATCACC
 TGCTAATACAGTACCTTTTTCTGGCGATTATGTGGACAGAGGTTATTTTAGTATAGAGCATGTTCTA
 GGCCTGAAGACATATCGATTAATCCTCACAATAATTAATGAGTGTCTTATATTTATGGTCTGA
 AGATTCTATACCAAGCACATTATTTCTCTGAGAGGCAACCATGAATGCAGACACCTTACTGAATTTT
 TACCTTTAAGCAGGAATGTAATAAAGTATTCGAAAGAGTCTATGAAGCTTGTATGGAAGCTTTTGT
 AGTTTGCCTCTTGCTGCACCTTTAAACCAACAGTTTCTTTGTGTTTCATGGTGGACTTTCACCAGAAATAC
 ACACACTGGATGATATTAGGAGATTAGATAGATTCAAAGAGCCACCTGCATTTGGACCAATGTGTGACTT
 GTTATGGTCCGATCCTTCTGAAGATTTTGGAAATGAAAAATCACAGGAACATTTTGTACACAATACAGTT
 CGAGGATGTTCTTATTTTATAACTATCCAGCAGTGTGTGAATTTTGCAAAACAATAATTTGTTATCGA
 TTATTAGAGCTCATGAAGCTCAAGATGCAGGCTATAGAATGTACAGAAAAAGTCAAACACAGGGTTCCC
 TTCATTAATAACAATTTTTTCGGCACCTAATTAAGTGTCTACAATAAAGCTGCTGTATTAAG
 TATGAAAATAATGTGATGAATATTCGACAGTTAACTGTTCTCCACATCCTTACTGGTTCCTAATTTTA
 TGGATGCTTTCAGTGGTCTTTACCGTTTGTGGAGAAAAAGTACAGAAATGTTGTAATGTTCTGAG
 TATTTGCTCTGATGAACATAAGTGAAGGTGAAGACCAGTTTGTATGGTTCAGCTGCAGCCGGAAA
 GAAATCATAAGAAACAAAATTCGAGCAATTGGCAAGATGGCAAGAGTCTTCTCTGTTCTCAGGGAGAGA
 GTGAAAGTGTGCTGACACTCAAGGGCTGACTCCACAGGGATGTTGCCTAGTGGAGTGTAGCTGGAGG
 ACGGCAGACCCTGCAAAGTGGTAAATGATGTTATGCAACTTGCTGTGCCTCAGATGGACTGGGCACACCT
 CACTCTTTGCTAACAAATCACATAATGCATGCAGGAATTCCTTCTGTTTTTGTCTCTCAGCA
 GC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238660 representing NM_001289968
 Red=Cloning site Green=Tags(s)

MAAPEPARAAPPPPPPPPPGADRVVKAVFPPTHRLTSEEVFDLDGIPRVDVLDKLNHLVKEGRVDEEIA
 LRIINEGAAILRREKTMIEVEAPITVCGDIHQFFDLMKLFEVGGSPANTRYLFLGDYVDRGYFSIEHVL
 GTEDISINPHNNINECVLYLWVLKILYPSTLFLLRGNHECRHLTEYFTFKQECKIKYSERVYEACMEAFD
 SLPLAALLNQFLCVHGLSPEIHTLDDIRRLDRFKEPPAFGPMCDLLWSDPSEDFGNEKSQEHF SHNTV
 RGCYFYFNYPVAVCEFLQNNLLSIIIRAHEAQDAGYRMYRKSQTTGFPSLITIFSAPNYLDVYNNKAIVLK
 YENNVMNIRQFNCSHPYWLPNFMDVFTWSLPFVGEKVTEMLVNVLSICSDDELMTGEDQFDGSAARK
 EIIRNKIRAIGKMARVFSVLRRESESVLTLKGLTPTGMLPSGVLAGGRQTLQSGNDVMQLAVPQMDWGTP
 HSFANNSHNACREFFLFFSSCLSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

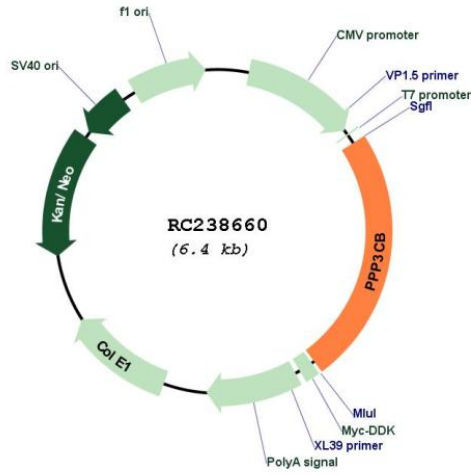
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001289968
ORF Size:	1542 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_001289968.1 , NP_001276897.1
RefSeq Size:	2516 bp
RefSeq ORF:	1545 bp
Locus ID:	5532
UniProt ID:	P16298
Cytogenetics:	10q22.2
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Axon guidance, B cell receptor signaling pathway, Calcium signaling pathway, Long-term potentiation, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Oocyte meiosis, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway
MW:	58.5 kDa
Gene Summary:	Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals (PubMed:19154138, PubMed:26794871). Dephosphorylates and activates transcription factor NFATC1 (PubMed:19154138). Dephosphorylates and inactivates transcription factor ELK1 (PubMed:19154138). Dephosphorylates DARPP32 (PubMed:19154138).[UniProtKB/Swiss-Prot Function]