

Product datasheet for **RR204519**

PPP3CB (NM_017042) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CB (NM_017042) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP3CB
Synonyms:	Calna2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204519 representing NM_017042
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCCCGGAGCCGGCCCGGGCCGCGCCGCCCTCCCGGCCCGCCCGCCCTCGGGGCCG
 ACCGCGTCGTCAAAGCCGTTCTTTTCCCCAACACACCGGTTGACATCTGAAGAAGTGTGGATGGA
 TGGGATACCCAGGTTGATGTTCTGAAGAACCATCTGGTAAAAGAAGGTCGGGTAGATGAAGAAATTGCA
 CTAAGAATTATCAATGAGGGTGCTGCCATACTAGGCGGGAGAAAACCATGATAGAAGTAGAAGCTCCAA
 TTACAGTGTGGTGACATCCATGGCCAATTTTTGATCTGATGAACTTTTTGAAGTAGGAGGATCACC
 TGCTAATACAGTACCTTTTTCTTGGTGATTATGTGGACAGAGGTTATTTTAGTATAGAGTGTCTTG
 TATTTATGGGTCTGAAGATTCTATACCAAGCACATTATCCTTCTGAGAGGCAACCATGAATGCAGAC
 ACCTCACTGAGTATTTACCTTTAAGCAGGAATGTAAATTAAGTATTCAGAAAGGCTATGAAGCTTG
 TATGGAGGCTTTGACAGCTTGGCCCTTGTGCACTTCTAAACCAACAATTTCTTTGTGTTTCATGGTGGA
 CTTTCACCAGAGATACACACTGGATGATATTAGGAGATTAGATAGATTTAAAGAGCCACCTGCATTTG
 GACCAATGTGTGACTTGTGTGGTCTGATCCTTCTGAAGACTTTGGAAATGAAAAATCACAGAACATTT
 TAGTCATAATACGGTTCGAGGATGTTCTTATTTTTATAACTATCCAGCAGTGTGTGAATTTTGC AAAAC
 AATAATTTGTTATCGATTATTAGAGCTCATGAAGCTCAAGATGCAGGCTATAGAATGTACAGAAAAAGTC
 AAACACAGGGTTTCTTCAATAAACAATTTTTCGGCACCTAATTACTTAGATGTCTACAATAATAA
 AGCTGTGTAATAAGTATGAGAACAATGTGATGAACATCCGCCAGTTAACTGTCTCCACATCCTTAC
 TGGTTGCCAATTTATGGATGTCTTACATGGTCTTACCATTGTTGGAGAAAAAGTCACAGAGATGT
 TGGTAAATGTTCTCAGTATTTGCTCTGATGATGAACAAATGACAGAAAGGGGAAGCAGTTGATGATGG
 TTCAGCTGCAGCCCGAAAGAAAATCATAAGAAAACAAGATCCGAGCAATTGGCAAGATGGCAAGAGTCTTC
 TCTGTTCTCAGGGAGGAGAGTGAAGCGTGTGCACTCAAGGGCCTGACTCCCACAGGGATGTTGCCTA
 GTGGAGTGTGGCTGGAGGACGGCAGACCTGCAAAGTCCACAGTTGAGGCTATTGAGGCTGAAAAAGC
 AATACGAGGATCCTCTCCACCACATAGAATCTGCAGTTTTGAAGAGGCAAGGGTTGGATAGGATCAAT
 GAGAGAATGCCACCCCGAAAGATGCTGTGCAGCAAGATGGTTTCAATCCCTGAACACCGCACATACCA
 CTGAGAACCACGGGACTGGCAACCATAGTGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204519 representing NM_017042
 Red=Cloning site Green=Tags(s)

MAAPEPARAAPPPPPPPPLGADRVVKAVFPPTHRLTSEEVFDMDGIPRVDVLKNHLVKEGRVDEEIA
 LRIINEGAAILRREKTMIEVEAPITVCGDIHQFFDLMKLFEVGGSPANTRYLFLGDYVDRGYFSIECVL
 YLWVLIKILYPSTLFLLRGNHECRHLTEYFTFKQECKIKYSERVYEACMEAFDSLPLAALLNQQLCVHGG
 LSPEIHTLDDIRRLDRFKEPPAFGPMCDLLWSDPSEDFGNEKSQEHF SHNTVRGCSYFYNYPAVCEFLQN
 NNLLSIIIRAHEAQDAGYRMYRKSQTTGFPSLITIFSAPNYLDVYNNKAAVLKYENNVNIRQFNCSPPHY
 WLPNFMVFTWSLPFVGEKVTEMLVNVLSICSDDELMTEGEDQFDVGSAAARKEIIRNKIRAIGKMARVF
 SVLREESESVLTLKGLTPTGMLPSGVLAGGRQTLQSATVEAIEAEKAIRGSSPPHRI CSFEEAKGLDRIN
 ERMPPRKDAVQQDGFNSLNTAHTTENHGTGNHSAQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

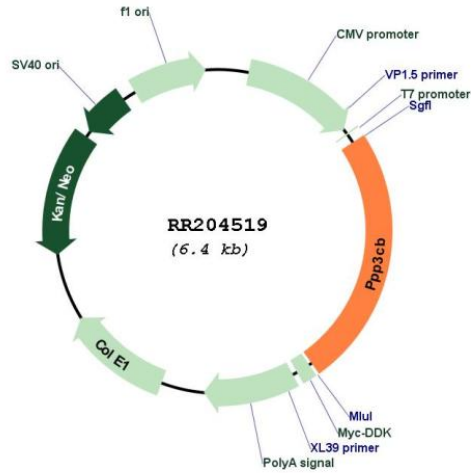
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_017042
ORF Size:	1575 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_017042.2 , NP_058738.1
RefSeq Size:	2265 bp
RefSeq ORF:	1578 bp
Locus ID:	24675
UniProt ID:	P20651
Cytogenetics:	15p16
MW:	59.1 kDa
Gene Summary:	Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals. Dephosphorylates and activates transcription factor NFATC1. Dephosphorylates and inactivates transcription factor ELK1. Dephosphorylates DARPP32.[UniProtKB/Swiss-Prot Function]