

Product datasheet for **SC112977**

PPP3CB (NM_021132) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CB (NM_021132) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP3CB
Synonyms:	CALNA2; CALNB; CNA2; PP2Bbeta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_021132, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGCCCCGAGCCGGCCCGGGCTGCACCGCCCCACCCCGCCCCCGCCGCCCTCCCGGGGCTG
ACCGCGTCGTCAAAGCTGTCCCTTTCCCCCAACACATCGCTTGACATCTGAAGAAGTATTTGATTTGGA
TGGGATACCCAGGGTTGATGTTCTGAAGAACCACCTGGTGAAGAAGGTCGAGTAGATGAAGAAATTGCG
CTTAGAATTATCAATGAGGGTGCTGCCATCCTTCGGAGAGAGAAAACCATGATAGAAGTAGAAGCTCAA
TCACAGTGTGTGGTGACATCCATGGCCAATTTTTTGTCTGATGAACTTTTTGAAGTAGGAGGATCACC
TGCTAATACACGATACCTTTTTCTTGGCGATTATGTGGACAGAGGTTATTTTAGTATAGAGTGTGTCTTA
TATTTATGGGTTCTGAAGATTCTATACCAAGCACATTATTTCTTCTGAGAGGCAACCATGAATGCAGAC
ACCTTACTGAATATTTACCTTTAAGCAGGAATGTAATAAAGTATTCGAAAGAGTCTATGAAGCTTG
TATGGAAGCTTTTGATAGTTTGCCTCTTGTGCACTTTTAAACCAACAGTTTCTTTGTGTTTCATGGTGA
CTTTCACCAGAAATACACACACTGGATGATATTAGGAGATTAGATAGATTCAAAGAGCCACCTGCATTTG
GACCAATGTGTGACTTGTATGGTCCGATCCTTCTGAAGATTTTGAAAATGAAAAATCACAGGAACATTT
TAGTCACAATACAGTTCGAGGATGTTCTTATTTTTATAACTATCCAGCAGTGTGTGAATTTTTGCAAAAC
AATAATTTGTTATCGATTATTAGAGCTCATGAAGCTCAAGATGCAGGCTATAGAATGTACAGAAAAAGTC
AACTACAGGGTCCCTTCATTAATAACAATTTTTTCGGCACCTAATTACTTAGATGTCTACAATAATAA
AGCTGCTGTATTAAGTATGAAAATAATGTGATGAATATTCGACAGTTTAACTGTTCTCCACATCCTTAC
TGGTTGCCTAATTTATGGATGTCTTACGTGGTCTTACCCTTTGTTGGAGAAAAAGTGACAGAAATGT
TGGTAAATGTTCTGAGTATTTGCTCTGATGAACTAATGACTGAAGGTGAAGACCAGTTTGTGCTTCT
AGCTGCAGCCCGAAAGAAATCATAAGAAACAAAATTCGAGCAATTGGCAAGATGGCAAGAGTCTTCTCT
GTTCTCAGGGAGGAGTGAAGTGTGCTGACACTCAAGGCGCTGACTCCACAGGAGTGTGCCTAGTG
GAGTGTTAGCTGGAGGACGGCAGACCTGCAAAGTGCCACAGTTGAGGCTATTGAGGCTGAAAAAGCAAT
ACGAGGATTCTCTCCACCACATAGAATCTGCAGTTTTGAAGAGGCAAAGGTTTGGATAGGATCAATGAG
AGAATGCCACCTCGAAAGATGCTGTACAGCAAGATGGTTTCAATTCTCTGAACCCGCACATGCCACTG
AGAACCACGGGACGGCAACCATACTGCCAGTGA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_021132 unedited
NGGGGTGCAATATTTGTATACGACTCACTATAGGGCGGCCGCGNAATTCGCACGAGAAGC
CGAGCCCCGGGCCAGCATGGCCGCCCGGAGCCGGCCCGGGCTGCACCGCCCCACCCC
CGCCCCCGCCGCCCTCCCGGGGCTGACCGCGTCGTCAAAGCTGTCCCTTTCCCCCAA
CACATCGCTTGACATCTGAAGAAGTATTTGATTTGGATGGGATACCCAGGGTTGATGTT
TGAAGAACCACCTGGTGAAGAAGGTCGAGTAGATGAAGAAATTCGCTTAGAATTATCA
ATGAGGGTGTGCCATCCTTCGGAGAGAGAAAACATGATAGAAGTAGAAGCTCCAATCA
CAGTGTGTGGTGACATCCATGGCCAATTTTTTGTCTGATGAACTTTTTGAAGTAGGAG
GATCACCTGCTAATACAGATACCTTTTTCTTGGCGATTATGTGGACAGAGGTTATTTA
GTATAGAGTGTGCTTATATTTATGGGTTCTGAAGATTCTATACCAAGCACATTATTT
TTCTGAGAGGCAACCATGAATGCAGACACCTTACTGAATATTTACCTTTAAGCAGGAAT
GTAAAATTAAGTATTCGAAAGAGTCTATGAAGCTTGTATGGAAGCTTTTGATAGTTTGC
CTTTGCTGCACTNTTAAACCAACAGTTTCTTTGTGTTTCATGGTGGACTCTACCAGAAA
TACACACACTGGATGATATTAGGAGATTAGATAGATTCAAAGAGCCACCTGCATTTGGAC
CAATGTGTGACTTGTATGGTCCGATCCTTTCTGAGATTTGAAAATGAANAATCACAGGA
CATTTTAGTCCAATACAGTTCGAGGAGTTCCTATTTTTATACTATCCAGCAGGGTGTGAA
TT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021132 unedited CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGGGAGCAGCGGCCCATGCA TGGAAATTTATTGTGTGCTACTGTTTATAAAAATACTCGAATAGTCTGCACATGCATAATA TTTCCAACCTAGACAGGAGACCATACAGGGTGCACCTTTCTGGCAAACAAAACAATAGATG GTTCCGCTGCCTGGAGCTCTGAGTTGTATTCCAGGGCATGAGGGAAGCAGGCCACCAAAG TAAAGGGAAATACCAAACACTACAGTGGCAATCAATACAGGTCAATAATTGTGAAAAATTAG CACATGGTTCCATTTAGTTTAAACCAAGCAGTTCAGTAACTATCAAAAAGAAAGGTTTCAAC ATGCAGTCTTGACTTTTATGCTTCCACTAACATCTGAATGATTGAACAGAACCATTGCTT CTAGGCTGCATTGCTTAATCAAAAACACTTCCAGAACATTTTAAAAATTTCTTTGCATTA AAACATAAAAAATGATAGAAAGCCAGCAGCAAAATCACCTGGTGGCTCTCTAAGCAACTTG AGTACTCACAATAAACTAAAATTTCTCATAACATCTAGGTAACCTATACATGTCGTACCT GTACATCATAGGTCTATATTAATAATTTGCAAAATGAAAACATGCATACACAAAATAC GTCAAGTTTACAGACATGACTTGAATTAATAATTTACTTTGACAATGTACAAACTTCTTTT AAAGTACCTTAAATGAGCAAATTTCTGTAATTTCTCATAATTTGAAAATTTAGAGGTTTT CTTTTTTAAATCTTTGGGTGTAAGGCCTTAAAGAAATGGGCCCAAAAAAACTCTAATTA ACTTTTGGGCTTGC GTTCAAGTAAGAAAACCTGCCTGAAAATAGGATTCCTTTCTTATTA AAAAATCCCCACTTTGTCCCAAATACCCCTTTAG
Restriction Sites:	ECORI-NOT
ACCN:	NM_021132
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_021132.1 , NP_066955.1
RefSeq Size:	3079 bp
RefSeq ORF:	1575 bp
Locus ID:	5532
UniProt ID:	P16298
Cytogenetics:	10q22.2
Domains:	Metallophos, PP2Ac
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. It encodes isoform b which is shorter than isoform a.</p>