

Product datasheet for **SC336554**

PPP3CB (NM_001289968) Human Untagged Clone

Product data:

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



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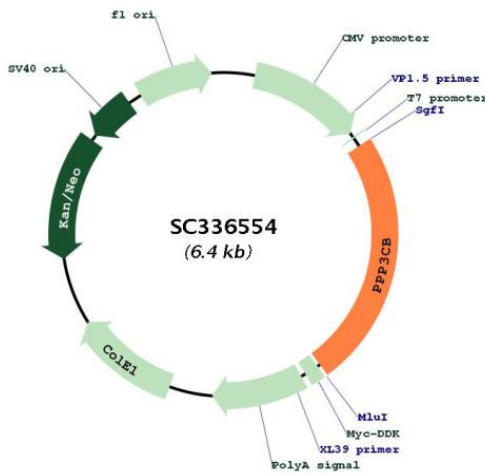
Fully Sequenced ORF: >SC336554 representing NM_001289968.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGCCCGGAGCCGGCCGGGCTGCACCCGCCCCACCCCGCCCCCGCCGCCCCCTCCCGGGGCT
GACCCGCTCGTCAAAGCTGTCCCTTTCCCCCAACACATCGCTTGACATCTGAAGAAGTATTTGATTTG
GATGGGATACCCAGGGTTGATGTTCTGAAGAACCATTGGTGAAAGAAGTTCGAGTAGATGAAGAAATT
GCGCTTAGAATTATCAATGAGGGTGTGCCATCCTTCGGAGAGAGAAAACCATGATAGAAGTAGAAGCT
CCAATCACAGTGTGGTGACATCCATGGCCAATTTTTGATCTGATGAAACTTTTTGAAGTAGGAGGA
TCACCTGCTAATACACGATACCTTTTTCTGGCGATTATGTGGACAGAGTTATTTTAGTATAGAGCAT
GTTCTAGGCACGAAGACATATCGATTAATCCTCACAATAATATTAATGAGTGTGTCTTATATTTATGG
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GAATATTTACCTTTAAGCAGGAATGAAAATTAAGTATTCGAAAGAGTCTATGAAGCTTGTATGGAA
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CCAGAAATACACACACTGGATGATATTAGGAGATTAGATAGATTCAAAGAGCCACCTGCATTTGGACCA
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TTTTTTAGTTCCTGTCTCAGCAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001289968

Insert Size:	1545 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_001289968.1
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 kDa
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 (4) has multiple differences in the coding region, one of which results in a frameshift and early stop codon, compared to variant 1. The resulting protein (isoform d) has a distinct C-terminus and is shorter than isoform a.</p>