

Product datasheet for **RG238660**

PPP3CB (NM_001289968) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CB (NM_001289968) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP3CB
Synonyms:	CALNA2; CALNB; CNA2; PP2Bbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238660 representing NM_001289968.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCGCCCGGAGCCGGCCCGGGTGCACCCGCCACCCCGCCCGCCCGCCCTCCCGGGGCT
GACCGCGTCGTCAAAGCTGTCCCTTTCCCCCAACACATCGCTTGACATCTGAAGAAGTATTTGATTG
GATGGGATACCCAGGTTGATGTTCTGAAGAACCATTGGTAAAAGAAGTTCGAGTAGATGAAGAAATT
GCGCTTAGAATTATCAATGAGGGTGTGCCATCCTTCGGAGAGAGAAAACCATGATAGAAGTAGAAGCT
CCAATCACAGTGTGTGGTACATCCATGGCCAATTTTTGATCTGATGAACTTTTTGAAGTAGGAGGA
TCACCTGCTAATACACGATACCTTTTTCTGGCGATTATGTGGACAGAGTTATTTTAGTATAGAGCAT
GTTCTAGGCATGAAGACATATCGATTAATCCTCACAATAATATTAATGAGTGTGTCTTATATTTATGG
GTTCTGAAGATTCTATACCAAGCACATTATTTCTTCTGAGAGGCAACCATGAATGCAGACACCTTACT
GAATATTTACCTTTAAGCAGGAATGAAAATTAAGTATTCGAAAGAGTCTATGAAGCTGTATGGAA
GCTTTTGATAGTTTGCCCTTGTGCACCTTTAAACCAACAGTTCTTTGTGTTTCATGGTGGACTTCA
CCAGAAATACACACACTGGATGATATTAGGAGATTAGATAGATCAAGAGCCACCTGCATTTGGACCA
ATGTGTGACTTGTATGGTCCGATCCTTCTGAAGATTTTGAAAATGAAAATCACAGGAACATTTTGTG
CACAATACAGTTCGAGGATGTTCTTATTTTTATAACTATCCAGCAGTGTGTGAATTTTTGCAAAAACAT
AATTTGTTATCGATTATTAGAGCTCATGAAGCTCAAGATGCAGGCTATAGAATGTACAGAAAAAGTCAA
ACTACAGGGTTCCTTCATTAATAACAATTTTTTCGGCACCTAATTAAGTGTCTACAATAATAAAA
GCTGCTGATTAAGTATGAAAATAATGTGATGAATATTCGACAGTTAACTGTTCTCCACATCCTTAC
TGGTTCCTAATTTTATGGATGTCTTACGTGGTCTTACCCTTGTGGAGAAAAAGTGACAGAAAATG
TTGGTAAATGTTCTGAGTATTTGCTCTGATGATGAATAATGACTGAAGGTGAAGACCAGTTTGTGAGT
TCAGCTGCAGCCCGAAAGAAATCATAAGAAACAAAATTCGAGCAATTGGCAAGATGGCAAGAGTCTTC
TCTGTTCTCAGGGAGGAGAGTAAAAGTGTGCTGACACTCAAGGGCCTGACTCCACAGGGATGTTGCCCT
AGTGGAGTGTAGCTGGAGGACGGCAGACCCTGCAAAGTGGTAATGATGTTATGCAACTGCTGTGCCCT
CAGATGGACTGGGGCACACCTCACTCTTTGCTAAACAATTCACATAATGCATGCAGGGAATTCCTCTGT
TTTTTTAGTTCCTGTCTCAGCAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238660
 Blue=ORF Red=Cloning site Green=Tag(s)

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MAAPEPARAAPPPPPPPPPGADRVVKAVFPPTHRLTSEEVFDLDGIPRVDVLKNHLVKEGRVDEEI
ALRIINEGAAILRREKTMIEVEAPITVCGDIHQFFDLMLKFEVGGSPANTRYLFLGDYVDRGYFSIEH
VLGTEDISINPHNNINECVLYLWVKILYPSTLFLLRGNHECRHLETFYTFKQECKIKYSERVYACME
AFDSLPLAALLNQFLCVHGGLSPEIHTLDDIRRLDRFKEPPAFGPMCDLLWSDPSEDFGNEKSQEHFS
HNTVRGCSYFYNYPAVCEFLQNNLLSIRAHEAQDAGYRMYRSQTTGFPSLITIF SAPNYLDVYNNK
AAVLKYENVMNIRQFNCSHPYWLPNFMDVFTWSLFPVGEKVTEMLVNVLSICSDDELMTGEDQFDG
SAAARKEIIRNKIRAIGKMARVFSVLR EESVLT LKGLTPTGMLPSGVLAGGRQTLQSGNDVMQLAVP
QMDWGTPHSFANNSHNACRELLFFSSCLSS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

SgfI-MluI

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).
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]