

Product datasheet for **RG238045**

PPP3CB (NM_001289969) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CB (NM_001289969) 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)
ORF Nucleotide Sequence:	>RG238045 representing NM_001289969. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
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TATTCGAAAGAGTCTATGAAGCTTGTATGGAAGCTTTGATAGTTTGCCTCTTGCTGCACTTTAAAC
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AATTCACATAATGCATGCAGGGAATTCCTTCTGTTTTTATGTTCTGCTCAGCAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238045
 Blue=ORF Red=Cloning site Green=Tag(s)

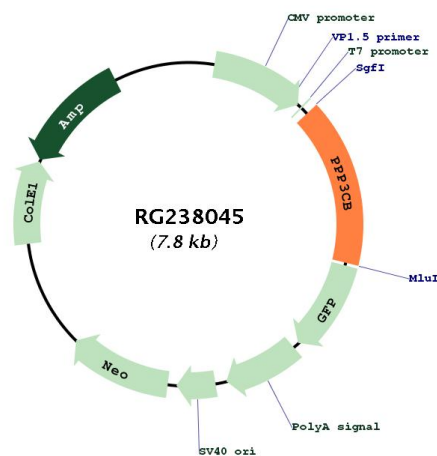
MIEVEAPITVCGDIHQFFDLMKLFVGGSPANTRYLFLGDYVDRGYFSIECVLYLWVLKILYPSTLFL
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 DRFKEPFAFGPMCDLLWSDPSEDFGNEKSQEHFSHNTVRGCSYFYNYPAVCEFLQNNLLSIRAHEAQ
 DAGYRMYRKSQTTGFPSLITIFSAFNLDVYNNKA AVLKYENNVNIRQFNCSPHPYWLPNFMDFVFTWS
 LPFVGEKVTEMLVNVLSICSDDELMTGEDQFDGSAARKEIIRNKIRATGKMARVFSVLRESESVLT
 LKGLTPTGMLPSGVLAGGRQTLQSGNDVMQLAVPQMDWGTPHSFANNSHNACRELLFFSSCLSS
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 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001289969
ORF Size:	1230 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_001289969.1 , NP_001276898.1
RefSeq Size:	2581 bp
RefSeq ORF:	1233 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:	47.1 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]