OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC228107

Ppp3ca (NM_001293622) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp3ca (NM_001293622) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ppp3ca
Synonyms:	2900074D19Rik; Caln; Calna; CN; CnA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

Fully Sequenced ORF:

>MC228107 representing NM_001293622
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCGAGCCCAAGGCGATTGATCCCAAGTTGTCGACGACCGACAGGGTGGTGAAAGCCGTTCCATTTC
CACCAAGTCACCGGCTGACAGCAAAGGAAGTGTTTGATAATGATGGGAAACCTCGTGTGGATATCTTAAA
AGCACATCTCATGAAGGAGGGCAGGCTGGAAGAAAGTGTTGCATTGAGAATAATAACAGAGGGTGCTTCG
ATTCTCCGACAGGAAAAAAACTTGCTGGATATCGACGCACCAGTCACAGTTTGTGGGGACATCCATGGAC
AATTCTTTGACTTGATGAAGCTCTTTGAAGTGGGAGGATCTCCTGCCAACACTCGCTACCTCTTCTTAGG
GGACTATGTTGACAGAGGGTACTTCAGTATCGAATGTGTGCTGTATTTGTGGGCCTTGAAAATTCTTTAC
CCCAAAACACTGTTTTTACTTCGCGGAAACCATGAATGTAGGCACCTCACAGAGTATTTCACGTTTAAAC
AAGAATGTAAAATAAAGTATTCAGAACGCGTTTATGACGCCTGTATGGATGCCTTCGACTGCCTTCCCCT
GGCTGCGCTAATGAACCAGCAGTTCCTGTGTGTACACGGTGGTTTGTCTCCAGAGATTAACACTCTAGAT
GACATCAGAAAATTAGACCGATTCAAAGAACCACCTGCTTATGGGCCCATGTGTGACATCCTATGGTCAG
ACCCCCTGGAGGACTTTGGAAATGAGAAGACTCAGGAACATTTCACTCACAACACAGTCAGAGGCTGTTC
GTACTTCTACAGTTACCCAGCTGTGTGTGACTTCCTGCAGCACAATAATTTGTTGTCCATACTCCGCGCC
CACGAAGCCCAGGATGCAGGGTACCGCATGTACAGGAAAAGCCAAACAACAGGCTTCCCGTCTCTAATTA
CAATCTTCTCGGCACCAAATTACTTAGATGTGTACAATAACAAAGCTGCAGTGTTGAAGTACGAGAACAA
TGTGATGAACATCAGGCAGTTCAACTGCTCCCCGCATCCGTACTGGCTCCCAAATTTCATGGATGTTTTC
ACCTGGTCGCTGCCATTTGTTGGGGAGAAAGTGACTGAGATGCTGGTCAATGTTCTCAACATCTGCTCCG
ACGATGAACTGGGGTCAGAAGAAGATGGATTTGACGGAGCCACGGCCGCAGCCCGGAAGGAAGTCATCAG
AAACAAGATCCGAGCAATAGGCAAAATGGCCAGAGTGTTCTCAGTTCTCAGAGAAGAGAGTGAGAGTGTC
CTGACACTGAAGGGCCTGACCCCAACTGGCATGCTCCCCAGCGGAGTGCTCTCTGGCGGGAAACAGACTC
TGCAAAGCGCCATCAAAGGATTTTCACCACAACATAAGATCACTAGCTTCGAGGAGGCCAAGGGCTTAGA
CCGAATTAACGAGAGGATGCCACCTCGCAGAGACGCCATGCCCTCTGACGCCAACCTTAACTCCATCAAC
AAGGCTCTCGCCTCAGAGACTAACGGCACGGACAGCAATGGCAGTAATAGCAGCAATATCCAGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001293622

Insert Size: 1536 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	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_001293622.1, NP_001280551.1
RefSeq Size:	4832 bp
RefSeq ORF:	1536 bp
Locus ID:	19055
UniProt ID:	P63328
Cytogenetics:	3 G3
Gene Summary:	Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals (PubMed:7791792, PubMed:26794871). Many of the substrates contain a PxIxIT motif and/or a LxVP motif (By similarity). In response to increased Ca(2+) levels, dephosphorylates and activates phosphatase SSH1 which results in cofilin dephosphorylation (By similarity). In response to increased Ca(2+) levels following mitochondrial depolarization, dephosphorylates DNM1L inducing DNM1L translocation to the mitochondrion (By similarity). Dephosphorylates heat shock protein HSPB1 (By similarity). Dephosphorylates and activates transcription factor NFATC1 (By similarity). Dephosphorylates and inactivates transcription factor ELK1 (By similarity). Dephosphorylates DARPP32 (By similarity). May dephosphorylate CRTC2 at 'Ser-171' resulting in CRTC2 dissociation from 14-3-3 proteins (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an in-frame exon in the 3' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.