

Product datasheet for **MC217435**

PPP3CA (NM_008913) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CA (NM_008913) 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



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Fully Sequenced ORF: >MC217435 representing NM_008913
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGAGCCCAAGGCGATTGATCCCAAGTTGTCGACGACCGACAGGGTGGTGAAGCCGTTCCATTTCC
 CACCAAGTCACCGGCTGACAGCAAAGGAAGTGTGGATAATGATGGGAAACCTCGTGTGGATATCTTAAA
 AGCACATCTCATGAAGGAGGGCAGGCTGGAAGAAAGTGTTCATTGAGAATAATAACAGAGGGTGTCTCG
 ATTCTCCGACAGGAAAAAACTTCTGGATATCGACGCACCAAGTACAGTTTGTGGGGACATCCATGGAC
 AATTCTTTGACTTGTGAAGCTCTTTGAAGTGGGAGGATCTCCTGCCAACACTCGCTACCTCTTCTTAGG
 GGACTATGTTGACAGAGGGTACTTCAGTATCGAATGTGTGCTGTATTTGTGGCCTTGAAAATCTTTAC
 CCCAAACTGTTTTTACTTCGCGGAAACCATGAATGTAGGCACCTCACAGGATTTTCAGTTTAAAC
 AAGAATGTAATAAAGTATTCAGAACGCGTTTATGACGCTGTATGGATGCCTTCGACTGCCTCCCT
 GGCTGCGCTAATGAACCAGCAGTTCCTGTGTACACGGTGGTTGTCTCCAGAGATTAACACTAGAT
 GACATCAGAAAATTAGACCGATTCAAAGAACCCTGCTTATGGGCCATGTGTGACATCCTATGGTCAG
 ACCCCCTGGAGGACTTTGGAAATGAGAAGACTCAGGAACATTTCACTCACAACACAGTCAGAGGCTGTTCC
 GTACTTCTACAGTTACCCAGCTGTGTGACTTCTGCAGCACAATAATTTGTTGTCCATACTCCGCGCC
 CACGAAGCCAGGATGCAGGGTACCGCATGTACAGGAAAAGCCAAACAACAGGCTTCCCGTCTCTAATTA
 CAATCTTCTCGGCACCAAAATTACTTAGATGTGTACAATAACAAAGCTGCAGTGTGAAGTACGAGAACAA
 TGTGATGAACATCAGGCAGTTCAACTGCTCCCGCATCCGACTGGCTCCCAAATTTTCATGGATGTTTTCC
 ACCTGGTCGCTGCCATTTGTTGGGGAGAAAGTACTGAGATGCTGGTCAATGTTCTCAACATCTGCTCCG
 ACGATGAACGGGTGAGAAGAAGTGGATTTGACGGAGCCACGGCCGAGCCCGGAAGGAAGTCAATCAG
 AAACAAGATCCGAGCAATAGGCAAAATGGCCAGAGTGTCTCAGTTCTCAGAGAAGAGAGTGAGAGTGTC
 CTGACACTGAAGGCCTGACCCCAACTGGCATGCTCCCGACGGAGTGCTCTCTGGCGGAAACAGACTC
 TGCAAAGCGCTACTGTTGAGGCTATTGAGGCTGATGAAGCCATCAAAGGATTTTCACCACAACATAAGAT
 CACTAGCTTCGAGGAGGCCAAGGGCTTAGACCGAATTAACGAGAGGATGCCACCTCGCAGAGACGCCATG
 CCCTCTGACGCCAACCTTAACCTCATCAACAAGGCTCTCGCTCAGAGACTAACGGCACGGACAGCAATG
 GCAGTAATAGCAGCAATATCCAG**TGA**

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_008913

Insert Size: 1566 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:

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_008913.5](#), [NP_032939.1](#)

RefSeq Size: 4862 bp

RefSeq ORF: 1566 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 PxlIT 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 (1) represents the longer transcript and encodes the longer 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.