

Product datasheet for **MR224578**

PPP3CC (NM_008915) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CC (NM_008915) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP3CC
Synonyms:	Calnc; PP2BA gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224578 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTGAGGGCCCTCAGTTCTCCAGCACCAGCGCGTCATCAAAGCTGTCCCTTTCTCCAACCC
 GACGGCTAACTTTGAAGGAAGTTTTGAGAATGGGAAACCTAAAATGGATCTTTTAAAAACCATTTAGT
 AAAAGAAGGTCGGGTGGAAGAGGAGGTGGCCTTAAAGATCATCAATGATGGGGCTGCCATCCTGAAGCAG
 GAGAAGACCATGATAGAGGTGGAGGCTCCGATCACAGTGTGTGGTGTGTTGATGGACAATCTTTGACC
 TGATGAAGTTGTTTGAAGTTGGGGGATCACCTAGTAATACTCGCTACCTTCTGGGTGACTATGTGGA
 CAGAGGCTATTTAGTATAGAGTGTGTGCTGTATCTATGGAGCTTAAAGATTAACCATCTAAAACATTG
 TTTCTGCTTCGAGGAAATCATGAATGCAGGCATTTACAGAGTACTTACCTTCAAACAGGAATGTCGGA
 TCAAGTATTCAGAGATGGTGTACGATGCGTGCATGCACACTTTCGACTGTCTTCTTGTGCCCTCTT
 AAACCAGCAGTTTCTCTGTGTACATGGAGGAATGTCTCCTGAAATTAAGTTTGTAGAGGACATTAGGAAA
 TTAGATAGGTTTTCTGAGCCTCCTGCTTTTGGGCCAGTGTGTGACCTGCTGTGGTCTGATCCCTTAGAGG
 ACTACGGCAGCGAGAAGACCCTGGAGCACTATACCCACAACACTGTCCGAGGCTGCTCCTACTTCTTCAG
 TTACCCTGCAGTTTGTGAATTTTACAGAACAACAGTTTATTATCAATAATCAGAGCCCATGAAGCCGAG
 GATGCGGGGTACCGAATGTATAGGAAGAACAAGCAACTGGCTTTCCGCTCACTTATTACGATTTTCTCTG
 CCCCTAATTACCTAGATGTCTATAACAATAAAGCTGCAGTGTGAAGTATGAAAACAATGTCATGAACAT
 CAGGCAGTTCAACTGTTCCCCACACCCCTACTGGCTCCCAAATTCATGGATGTTTTACGTTGGTCTTTG
 CCTTTTGTGGAGAGAAAGTGACAGAGATGCTGGTCAATATTCTCAACATATGCTCGGATGAAGAAATGA
 ACGTAACCGATGAAGAAGGAGCTACTACAGGTCGAAAAGAAGTCAAGAATAAAATCCGAGCCATTGG
 GAAAATGGCCCGGTCTTTACGGTCTTTCGGGAAGAGAGTGAAGAATGTGCTGACCCCTCAAGGCTCACT
 CCCACAGGCACACTCCCCTGGGGTCTCTCTGGAGGAAAGCAGACCATTGAGACTGCCAAAACAAGAG
 CCGCAGAGGAGCGGGAAGCCATCAGAGTTTTACAATTGCACACAGGATCCGAAGTTTTGAAGAAGCCG
 AGGTCTAGACCGAATTAATGAGAGAATGCCACCCCGAAAAGAGGCTTCATATCATCATGATGCAGGGAGG
 ATGCACTCACACTCGCATCCGCCACACCACAGGCGTCAAGAAGGACCGACCATGGAAGAAGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224578 protein sequence
 Red=Cloning site Green=Tags(s)

MSVRRPQFSTTERVIKAVFPFTRRLTLKEVFENKPKMDLLKNHLVKEGRVEEVALKIINDGAAILKQ
 EKTMI EVEAPITVCGDVHGQFFDLMKLFEVGGSPSNTRYLFLGDYVDRGYFSIECVLYLWSLKINHPKTL
 FLLRGNHECRHLTEYFTFKQECRIKYSEMYDAMHTFDCLPLAALLNQQFLCVHGGMSPEITCLEDIRK
 LDRFSEPPAFGPVCDLLWSDPLEDYGSEKLEHYTHNTVRGCSYFFSYPVCFEQNSLLSIIRAHEAQ
 DAGYRMYRKNQATGFPSLITIFSAPNYLDVYNNKAAVLKYENNVNIRQFNCSPPHYWLPNFMDFVTSWL
 PFVGEKVTEMLVNILNICSDEEMNVTDEEGATTGRKEVIKINKIRAI GKMARVFTVLRESENVLTLLKGLT
 PTGTLPLGVLSGGKQTIETAKQEAEEEREAIRGFTIAHRIRSFEEARGLDRINERMPPRKEASYHHDAGR
 MSHSHPPHPQASRRTDHGKAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008915

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).

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_008915.3](#), [NP_032941.1](#)

RefSeq Size: 1948 bp

RefSeq ORF: 1542 bp

Locus ID: 19057

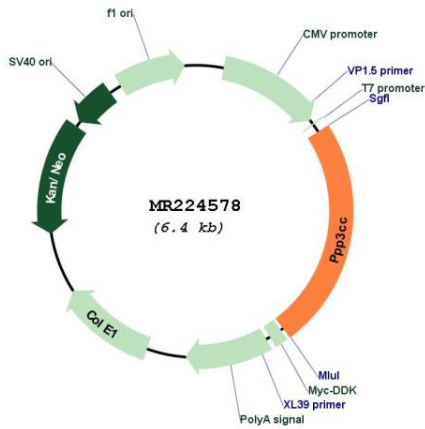
UniProt ID: [P48455](#)

Cytogenetics: 14 D2

MW: 58.7 kDa

Gene Summary: Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals. Dephosphorylates and activates transcription factor NFATC1. Dephosphorylates and inactivates transcription factor ELK1. Dephosphorylates DARPP32.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224578