

Product datasheet for **RC232911**

PPP3CC (NM_001243974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CC (NM_001243974) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP3CC
Synonyms:	CALNA3; CNA3; PP2Bgamma
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC232911 representing NM_001243974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGGAGGGCGTTCCACCTCTCCACCACCGACCGCGTCATCAAAGCTGTCCCTTTCTCCAACCC
 AACGGCTTACTTTCAAGGAAGTATTTGAGAATGGGAAACCTAAAGTTGATGTTTTAAAAACCATTTGGT
 AAAGGAAGGACGACTGGAAGAGGAAGTAGCCTTAAAGATAATCAATGATGGGGCTGCCATCCTGAGGCAA
 GAGAAGACTATGATAGAAGTAGATGCTCCAATCACAGTATGTGGTGATATTCATGGACAATCTTTGACC
 TAATGAAGTTATTTGAAGTTGGAGGATCACCTAGTAACACACGCTACCTCTTTCTGGGTGACTATGTGGA
 CAGAGGCTATTTCAAGTATAGAGTGTGTGCTGTATTTATGGAGTTAAAGATTAATCATCCAAAACATTG
 TTTCTGCTTCGGGAAATCATGAATGCAGGCATCTTACAGACTATTTACCTTCAAACAGGAATGTCGAA
 TCAAATATTCGGAACAGGTGTATGATGCCTGTATGGAGACATTTGACTGTCTTCTTGTGCTGCCCTCT
 AAACCAGCAGTTTCTCTGTGACATGGAGGAATGTCACCTGAAATTACTTCTTTAGATGACATTAGGAAA
 TTAGACAGGTTTACGGAACCTCCCGCTTTGGACCTGTGTGACCTGCTTTGGTCTGATCCCTCAGAGG
 ATTATGGCAATGAGAAGACCTTGGAGCACTATACCCACAACACTGTCCGAGGGTGTCTTATTTCTACAG
 TTACCCTGCAGTTTGTGAATTTTGCAGAACAAATAATTTACTATCAATTATCAGAGCCCATGAAGCCCAA
 GATGCTGGGTATCGAATGTACAGGAAGAGCCAAGCCACAGGCTTCCATCACTTATTACAATTTCTCTG
 CCCCCAATTACCTAGATGTCTATAACAATAAAGCTGCTGTGTGAAATATGAAAACAATGTCATGAATAT
 CAGGCAGTTTAACTGTTCTCCACACCCCTACTGGCTTCCAACCTTATGGATGTTTTACATGGTCTTTG
 CCTTTTGTGGGAAAAAGTCACAGAGATGCTGGTAAATGTGCTCAACATATGCTCTGATGACGAAGTGA
 TTTCTGATGATGAAGCAGAAGTCACTACATTTCCAAGCTATCAGAAAGGAAGCACTACAGTTTCGTAAGGA
 GATCATCAGGAATAAGATCAGAGCCATTGGGAAGATGGCACGGGTCTTTTCAATCTTCGGCAAGAAAGT
 GAGAGTGTGCTGACTCTCAAGGGCTGACTCCACAGGCACACTCCCTCTGGCGTCTCTCAGGAGGCA
 AGCAGACTATCGAGACAGCCACAGTAGAAGCGGTAGAGGCCCGGGAAGCCATCAGAGGGTCTCGCTTCA
 GCACAAGATCCGGAGTTTGAAGAAGCGCGAGGTCTGGACCGAATTAATGAGCGAATGCCACCCCGAAAG
 GATAGCATACACGCTGGTGGCCAATGAAATCTGTAACCTCAGCACACTCACATGCTGCGCACAGGAGCG
 ACCAAGGGAAGAAAGCCATTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232911 representing NM_001243974
 Red=Cloning site Green=Tags(s)

MSGRRFHLSTTDRIKAVPFPPTQRLTFKEVFENGKPKVDVLKNHLVKEGRLEEEVALKIINDGAAILRQ
 EKTMI EVDAPITVCGDIHQFFDLMKLFEVGGSPNTRYLFLGDYVDRGYFSIECVLYLSLKHINPKTL
 FLLRGNHECRHLTDYFTFKQECRIKYSEQVYDACMETFDCLPLAALLNQFLCVHGGMSPEITSLDDIRK
 LDRFTEPPAFGPVCDLLWSDPSEDYGNKTL EHYTHNTVRGCSYFYSPAVCEFLQNNLLSIIIRAHEAQ
 DAGYRMYRKSQATGFPSLITIF SAPNYLDVYNNKAAVLKYENNVNIRQFNCSPPHYWLPNFMDFVTWSL
 PFVGEKVTEMLVNVLNICSDDELISDDEAEDHYIPSYQKGSTTVRKEIIRNKIRAIGKMARVFSILRQES
 ESVLTLKGLTPTGTLPLGVLSGGKQTIETATVEAVEAREAIRGFSLQHKIRSFEEARGLDRINERMPPRK
 DSIHAGGPMKSVTSAHSHAAHRSDQGKKAHS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

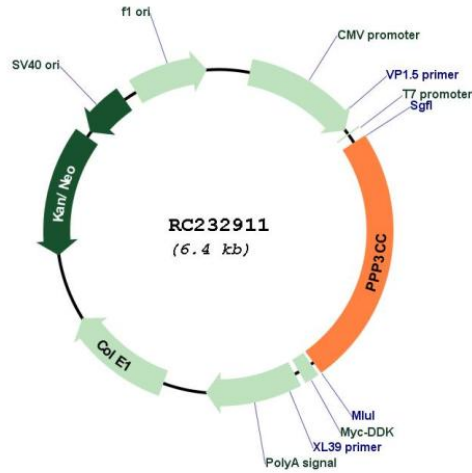
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001243974
ORF Size:	1563 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:	<ol style="list-style-type: none">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_001243974.1 , NP_001230903.1
RefSeq Size:	2361 bp
RefSeq ORF:	1566 bp
Locus ID:	5533
UniProt ID:	P48454
Cytogenetics:	8p21.3
Protein Families:	Druggable Genome, Phosphatase
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:	59.7 kDa
Gene Summary:	Calcineurin is a calcium-dependent, calmodulin-stimulated protein phosphatase involved in the downstream regulation of dopaminergic signal transduction. Calcineurin is composed of a regulatory subunit and a catalytic subunit. The protein encoded by this gene represents one of the regulatory subunits that has been found for calcineurin. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]