

Product datasheet for **RC202495**

PPP3CC (NM_005605) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CC (NM_005605) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP3CC
Synonyms:	CALNA3; CNA3; PP2Bgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202495 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGGAGGGCGTTCCACCTCTCCACCACCGACCGCGTCATCAAAGCTGTCCCCTTTCTCCAACCC
 AACGGCTTACTTTCAAGGAAGTATTTGAGAATGGGAAACCTAAAGTTGATGTTTTAAAAACCATTTGGT
 AAAGGAAGGACGACTGGAAGAGGAAGTAGCCTTAAAGATAATCAATGATGGGGCTGCCATCCTGAGGCAA
 GAGAAGACTATGATAGAAGTAGATGCTCCAATCACAGTATGTGGTGATATTCATGGACAATCTTTGACC
 TAATGAAGTTATTTGAAGTTGGAGGATCACCTAGTAACACACGCTACCTCTTTCTGGGTGACTATGTGGA
 CAGAGGCTATTTCAAGTATAGAGTGTGTGCTGTATTTATGGAGTTAAAGATTAATCATCCAAAACATTG
 TTTCTGCTTCGGGAAATCATGAATGCAGGCATTTACAGACTATTTACCTTCAAACAGGAATGTCGAA
 TCAAATATTCGGAACAGGTGTATGATGCCTGTATGGAGACATTTGACTGTCTTCTCTTGCTGCCCTCTT
 AAACCAGCAGTTTCTCTGTGTACATGGAGGAATGTCACCTGAAATTACTTCTTTAGATGACATTAGGAAA
 TTAGACAGGTTTACGGAACCTCCCGCTTTGGACCTGTGTGTGACCTGCTTTGGTCTGATCCCTCAGAGG
 ATTATGGCAATGAGAAGACCTTGGAGCACTATACCCACAACACTGTCCGAGGGTGCTCTTATTTCTACAG
 TTACCCTGCAGTTTGTGAATTTTGCAGAACAAATAATTTACTATCAATTATCAGAGCCCATGAAGCCCAA
 GATGCTGGGTATCGAATGTACAGGAAGAGCCAAGCCACAGGCTTTCCATCACTTATTACAATTTTCTCTG
 CCCCCAATTACCTAGATGTCTATAACAATAAAGCTGCTGTGTGTTGAAATATGAAAACAATGTCATGAATAT
 CAGGCAGTTTAACTGTTCTCCACACCCCTACTGGCTTCCAACCTTATGGATGTTTTACATGGTCTTTG
 CCTTTTGTGGGAAAAAGTACAGAGATGCTGGTAAATGTGCTCAACATATGCTCTGATGACGAAGTGA
 TTTCTGATGATGAAGCAGAAGGAAGCACTACAGTTCGTAAGGAGATCATCAGGAATAAGATCAGAGCCAT
 TGGGAAGATGGCACGGGTCTTTTCAATCTTCGGCAAGAAAGTGAGAGTGTGCTGACTCTCAAGGGCCTG
 ACTCCACAGGCACACTCCCTCTGGGCGTCTCTCAGGAGGCAAGCAGACTATCGAGACGCCACAGTAG
 AAGCGGTAGAGGCCCGGGAAGCCATCAGAGGGTCTCGCTTCAGCACAAGATCCGGAGTTTTGAAGAAGC
 GCGAGGCTGGACCGAATTAATGAGCGAATGCCACCCGAAAGGATAGCATACACGCTGGTGGGCAATG
 AAATCTGTAACCTCAGCACACTCACATGCTGCGCACAGGAGCGACCAAGGGAAGAAAGCCCATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202495 protein sequence
 Red=Cloning site Green=Tags(s)

MSGRRFHLSTDRVIKAVFPPTQRLTFKEVFENGKPKVDVLDKNHLVKEGRLEEEVALKIINDGAAILRQ
 EKTMIIEVDAPITVCGDIHQFFDLMKLFEVGGSPSNTRYLFLGDYVDRGYFSIECVLYLWSLKINHPKTL
 FLLRGNHECRHLTDYFTFKQECRIKYSEQYDAMETFDCLPLAALLNQFLCVHGGMSPEITSLDIRK
 LDRFTEPPAFGPVCDLLWSDPSEDYNEKTLHYTHNTVRGCSYFYSYPVCEFLQNNLLSIIIRAHEAQ
 DAGYRMYRKSQATGFPSLITIFSAPNYLDVYNNKAAVLKYENNVNIRQFNCSPPHYWLPNFMDFVTSW
 PFVGEKVTEMLVNLNICSDELISDDEAEGSTTVRKEIIRNKIRAIGKMARVFSILRQESVLTLLKGL
 TPTGTLPLGVLGGKQTIETATVEAVEAREAIRGFSLQHKIRSFEEARGLDRINERMPPRKDSIHAGGPM
 KSVTSAHSHAAHRSDQGGKAHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6151_b02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_005605

ORF Size: 1536 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_005605.5](#)

RefSeq Size: 2334 bp

RefSeq ORF: 1539 bp

Locus ID: 5533

UniProt ID: [P48454](#)

Cytogenetics: 8p21.3

Domains: Metallophos, PP2Ac

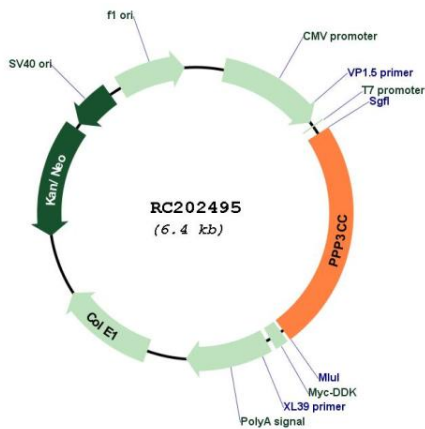
Protein Families: Druggable Genome, Phosphatase

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

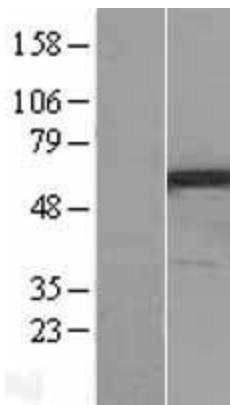
MW: 58.1 kDa

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]

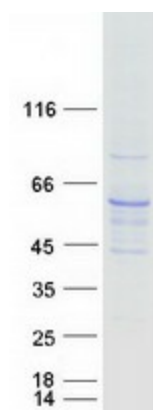
Product images:



Circular map for RC202495



Western blot validation of overexpression lysate (Cat# [LY401721]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202495 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP3CC protein (Cat# [TP302495]). The protein was produced from HEK293T cells transfected with PPP3CC cDNA clone (Cat# RC202495) using MegaTran 2.0 (Cat# [TT210002]).