

Product datasheet for **RG232911**

PPP3CC (NM_001243974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP3CC (NM_001243974) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP3CC
Synonyms:	CALNA3; CNA3; PP2Bgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232911 representing NM_001243974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGGAGGGCGTTCCACCTCTCCACCACCGACCGCGTCATCAAAGCTGTCCCTTTCTCCAACCC
 AACGGCTTACTTTCAAGGAAGTATTTGAGAATGGGAAACCTAAAGTTGATGTTTTAAAAACCATTTGGT
 AAAGGAAGGACGACTGGAAGAGGAAGTAGCCTTAAAGATAATCAATGATGGGGCTGCCATCCTGAGGCAA
 GAGAAGACTATGATAGAAGTAGATGCTCCAATCACAGTATGTGGTGATATTCATGGACAATCTTTGACC
 TAATGAAGTTATTTGAAGTTGGAGGATCACCTAGTAACACACGCTACCTCTTTCTGGGTGACTATGTGGA
 CAGAGGCTATTTCAAGTATAGAGTGTGTGCTGTATTTATGGAGTTAAAGATTAATCATCCAAAACATTG
 TTTCTGCTTCGGGAAATCATGAATGCAGGCATTTACAGACTATTTACCTTCAAACAGGAATGTCGAA
 TCAAATATTCGGAACAGGTGTATGATGCCTGTATGGAGACATTTGACTGTCTTCTCTTGTGCCCTCTT
 AAACCAGCAGTTTCTCTGTGACATGGAGGAATGTCACCTGAAATTACTTCTTTAGATGACATTAGGAAA
 TTAGACAGGTTTACGGAACCTCCCGCTTTGGACCTGTGTGTGACCTGCTTTGGTCTGATCCCTCAGAGG
 ATTATGGCAATGAGAAGACCTTGGAGCACTATACCCACAACACTGTCCGAGGGTGCTCTTATTTCTACAG
 TTACCCTGCAGTTTGTGAATTTTGCAGAACAAATAATTTACTATCAATTATCAGAGCCCATGAAGCCCAA
 GATGCTGGGTATCGAATGTACAGGAAGAGCCAAGCCACAGGCTTTCCATCACTTATTACAATTTTCTCTG
 CCCCCAATTACCTAGATGTCTATAACAATAAAGCTGCTGTGTGAAATATGAAAACAATGTCATGAATAT
 CAGGCAGTTTAACTGTTCTCCACACCCCTACTGGCTTCCAACCTTATGGATGTTTTACATGGTCTTTG
 CCTTTTGTGGGAAAAAGTCACAGAGATGCTGGTAAATGTGCTCAACATATGCTCTGATGACGAACTGA
 TTTCTGATGATGAAGCAGAAGTACTACATTTCAAGCTATCAGAAAGGAAGCACTACAGTTCGTAAGGA
 GATCATCAGGAATAAGATCAGAGCCATTGGGAAGATGGCACGGGCTTTTCAATTCCTTCGCAAGAAAGT
 GAGAGTGTGCTGACTCTCAAGGGCTGACTCCACAGGCACACTCCCTCTGGGCGTCTCTCAGGAGGCA
 AGCAGACTATCGAGACAGCCACAGTAGAAGCGGTAGAGGCCCGGGAAGCCATCAGAGGGTTCTCGCTTCA
 GCACAAGATCCGGAGTTTGAAGAAGCGCGAGGTCTGGACCGAATTAATGAGCGAATGCCACCCCGAAAG
 GATAGCATACACGCTGGTGGCCAATGAAATCTGTAACCTCAGCACACTCACATGCTGCGCACAGGAGCG
 ACCAAGGGAAGAAAGCCATTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232911 representing NM_001243974
 Red=Cloning site Green=Tags(s)

MSGRRFHLSTDRVIKAVFPPTQRLTFKEVFENGKPKVDVLDKNHLVKEGRLEEEVALKIINDGAAILRQ
 EKTMI EVDAPITVCGDIHQFFDLMLKFEVGGSPSNTRYLFLGDYVDRGYFSIECVLYLWSLKINHPKTL
 FLLRGNHECRHLTDYFTFKQECRIKYSEQYDAMETFDCLPLAALLNQFLCVHGGMSPEITSLDIRK
 LDRFTEPPAFGPVCDLLWSDPSEDYGNEKTL EHYTHNTVRGCSYFYSYPVAVCEFLQNNLLSIIRAHEAQ
 DAGYRMYRKSQATGFPSLITIFSAPNYLDVYNNKAAVLKYENNVMNIRQFNCSPPHYWLPNFMDFVTSW
 PFVGEKVTEMLVNLNICSDDDELISDDEAEDHYIPSYQKSTTVRKEIIRNKIRAIGKMARVFSILRQES
 ESVLTLKGLTPTGTLPLGVLGGKQTIETATVEAVEAREAIRGFSLQHKIRSFEEARGLDRINERMPPRK
 DSIHAGGPMKSVTSAHSHAAHRSDQKKKHAH

TRTRPLE – GFP Tag – V

Restriction Sites:

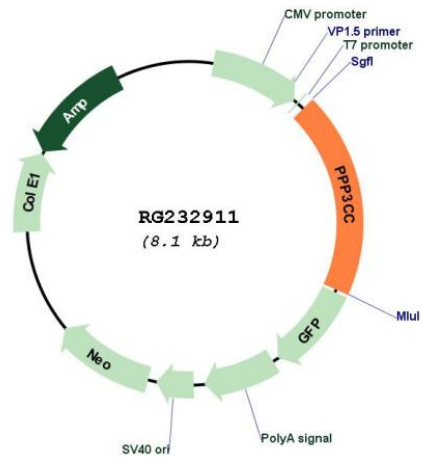
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



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
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]