

Product datasheet for **RC229279**

CPNE1 (NM_003915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE1 (NM_003915) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPNE1
Synonyms:	COPN1; CPN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC229279 representing NM_003915
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATGATGCACATGGCCACTGCGTGACCTTGTTTTCAGCTGTCCATTTCTGTGACCATCTCATTG
 ACAAGGACATCGGCTCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGCAGCTGGC
 TGAGCTTGGCCGACTGAACGGGTGCGGAAGTCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAG
 TACCGCTTGGAGACAGTCCAGAAGCTACGCTTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGA
 GGGATGATGACTTCTAGGGGTGCTGAGTGTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCT
 CCCCTTGATGCTGAAGCCTGAAAACCTGCTGGGCGGGGACCATCACGGTCTCAGCTCAGGAATTAAG
 GACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAACTAGATAAGAAGGACTTCTGGGAAAATCAG
 ATCCATTTCTGGAGTTCTCCGCCAGGGTATGGGAAATGGCACCTGGTGTACAGATCTGAGGTCATCAA
 GAACAACCTGAACCTACATGGAAGCGTTCTCAGTCCCGTTTCCAGATTCTGTGGTGGGAACCCAGC
 ACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGTGCATGATCTCATCGGTACCTTCCACA
 CCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCTGAGAAGCAGCAGAAAA
 GAAAAGCTACAAGAACTCTGAACTATCCGTGTCAAGATTTGTGCGGTAGAAAACAGAGTACTCCTTTCTG
 GACTATGTGATGGGAGGCTGTCAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGACC
 CCTCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAG
 TGTGGGACAGCGTGGTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTTGGGGCCAGGT
 CCCCTGACTGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCA
 TCCAGGGCATTGTGGATGCCTACCGCAAGCCCTGCCCAAGTTGCCTCTATGGCCCTACCAAACTTTGC
 ACCATCATCAACCATGTGGCCAGGTTTGCAGCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTC
 ATGCTGTTGCTGCTGACTGATGGTGTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTGCCT
 CGAACCTGCCATGTCAGTGATCATTGTGGGTGTGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGA
 CGCTGATGGTGGACCCCTGCATACACGTTCTGGGCAGGCTGTGCCCGGACATTGTGCAGTTTGTACCC
 TACCGCCGTTCCAGAATGCCCTCGGGAGGCATTGGCACAGACCGTGTGCGAGAAGTGCCACACAAC
 TGGTCTCATACTCAGGGCCAGGGTGGGCCCGCTCAAGCCACTTCCACCTCAGCCAAGGATCTGCG
 ACAGGCCCCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229279 representing NM_003915
 Red=Cloning site Green=Tags(s)

MKMMHMAHCVTLVQLSISCDHLIDKIDIGSKSDPLCVLLQDVGGGWAELGRTERVRNCSSPEFSKTLQLE
 YRFETVQKLRFGIYDIDNKTPELRDDDFLGAECSLGQIVSSQVLTPLMLKPGKPAGRGITVSAQELK
 DNRVVTMEVEARNLDDKDFLGKSDPFLEFFRQGDGKWHLYRSEVIKNNLNPTWKRFSVPVQHFCCGNPS
 TPIQVQCSYDSDGSHDLIGTFHTSLAQLQAVPAEFECIHPEKQKQKKSYSKNSGTIRVKICRVETEYSFL
 DYVMGGCQINFVGVDFGSDGSDPSLHLSPTGVNEYLMALWSVGSVVQDYSDKLFPAFGFGAQQV
 PPDWQVSHEFALNFNPSNPYCAGIQGIVDAYRQALPQVRLYGPTNFAPIINHVARFAAQAHQGTASQYF
 MLLLLTDGAVTDVEATREAVVRASNLPMSEIIVGVGGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVP
 YRRFQNPAREALAQTVLAEVPTQLVSYFRAQGWAPLKLPLPPSAKDPAQAPQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8066_d08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003915

ORF Size: 1626 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_003915.5](#)

RefSeq ORF: 1629 bp

Locus ID: 8904

UniProt ID: [Q99829](#)

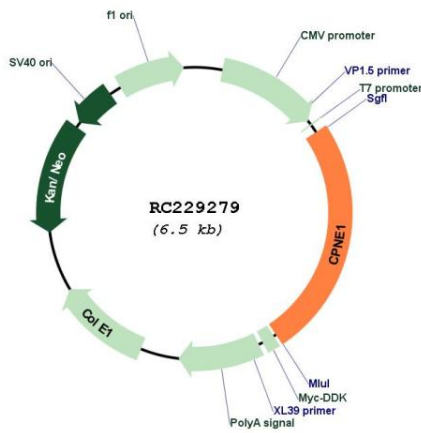
Cytogenetics: 20q11.22

Domains: C2, VWA

MW: 59.5 kDa

Gene Summary: Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. This gene encodes a calcium-dependent protein that also contains two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. However, the encoded protein does not contain a predicted signal sequence or transmembrane domains. This protein has a broad tissue distribution and it may function in membrane trafficking. This gene and the gene for RNA binding motif protein 12 overlap at map location 20q11.21. Alternate splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RC229279