

Product datasheet for **RC203541**

CPNE4 (NM_130808) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE4 (NM_130808) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPNE4
Synonyms:	COPN4; CPN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC203541 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAAGATGAGCAACATTTATGAGTCCGCTGCCAACACACTGGGAATCTTTAACAGCCCTGCCTGA
 CCAAAGTTGAGCTGCGTGTGGCGTGCAAAGGCATTTCTGACAGAGATGCCCTTTCCAAACCAGACCCTG
 TGTCACTCTCAAGATGCACTCTCATGGGCACTGGTTTGAGGTTGACAGGACTGAGGTGATTTCGCACCTGC
 ATAAACCCAGTGTACTCAAACTGTTTACTGTGGACTTTTACTTTGAGGAGGTGCAGCGCTGCGGTTTG
 AAGTCCATGACATCAGCAGCAACCACAATGGGCTGAAGGAGGCCGACTTCCTTGGTGGCATGGAGTGCAC
 ACTTGCCAGATTGTTTCCAGAGAAAGCTGTCCAAATCCTTGCTGAAGCATGGGAACACAGCAGGGAAA
 TCTTCCATCACGGTATTGCTGAAGAATTATCTGGCAATGACGACTATGTTGAGCTTGCAATCAATGCAC
 GGAATTGGATGACAAGGATTTCTCAGTAAATCTGACCATTTCTGGAAATTTTCGTATGAATGATGA
 TGCAACTCAGCAGCTGGTGCACCGAACTGAGGTTGTGATGAATAACTTAAGCCAGCCTGGAAATCATT
 AAAGTATCTGTAAATCTCTATGCAGCGGAGACCCAGACCGCGGCTAAAGTGCATAGTATGGGACTGGG
 ACTCCAATGGCAAGCATGACTTCATTGGAGAATTCACCTCGACATTCAAGGAGATGAGAGGAGCAATGGA
 AGGGAACAGGTGCACTGGGAGTGCATCAATCCCAAGTACAAAGCCAAGAAGAATTACAAGAACTCA
 GGCAGTGTGATTCTGAATCTGTGCAAGATTACAAGATGCATTCTTTCTTGGACTACATCATGGTGGCT
 GCCAAATCCAGTTTACAGTAGCTATAGATTTCACTGCCTCAAACGGGGACCCAGGAACAGCTGTTCTT
 GCACTACATCCACCTTACCAACCCAATGAGTATCTGAAAGCTTTGGTAGCTGTGGGGGAGATTTGCCAA
 GACTATGACAGTGACAAAATGTTCCCTGCCTTTGGGTTTGGCGCCAGGATACCTCCAGAGTACACGGTCT
 CTCATGACTTTGCAATCAACTTTAATGAAGACAACCCAGAATGTGCAGGAATTCAAGGAGTTGTGGAAGC
 CTATCAGAGCTGTCTTCTAAGCTCCAACCTCTACGGTCCCAACCAACATTGCCCCCATCATCCAGAAGGTT
 GCCAAGTCAGCGTCAGAGGAACTAACACCAAGGAGGCATCGCAATACTTCATCTGCTGATCCTGACAG
 ATGGTGTATCACAGACATGGCCGACACCCGGGAGGCCATTGTCCATGCCTCCACCTCCCATGTCAGT
 CATCATCGTGGGAGTAGGGAACGCTGACTTCAGTGACATGCAGATGCTGGACGGTGATGATGGGATTCTG
 AGGTCAACCAAGGGAGAGCCTGTTCTTCGAGACATCGTCCAGTTCGTGCCCTTCAGGAACCTCAAACACG
 CATCTCCAGCTGCCCTGGCAAAGAGCGTCTGGCTGAAGTCCCAAACCAAGTTGTGGACTATTACAATGG
 CAAAGGAATTAACCAAAATGTTATCAGAAATGTATGAATCTTCCAGAACACTAGCACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203541 protein sequence
 Red=Cloning site Green=Tags(s)

MKKMSNIYESAANTLGIFNSPCLTKVELRVACKGISDRDALSKPDPCVILKMQSHGQWFVEVDRTEVIRTC
 INPVYSKLFYVDFYFEEVQRLRFEVHDISSNHNLKEADFLGGMECTLGQIVSQRLSKSLLKHGNTAGK
 SSITVIAEELSGNDYVELAFNARKLDDKDFFSKSDPFLEIFRMNDDATQQLVHRTEVVMNLSPAWKSF
 KVSVNSLCSGDPDRRLKCIWWDWSNGKHDFIGFTSTFKEMRGAMEGKQVQWECINPKYKAKKNYKNS
 GTVILNLCKIHKMHSFLDYIMGGCQIQFTVAIDFTASNGDPRNSCSLHYIHPYQPNEYLKALVAVGEICQ
 DYDSKMFPAFGGARIPPEYTVSHDFAINFEDNPECAGIQGVVEAYQSCLPKLQLYGPTNIAPIIQKV
 AKSASEETNTKEASQYFILLILTDGVITDMADTREAIVHASHLPMSVIIIGVGNADFSDMQMLDGGDGIL
 RSPKGEPVLRDIVQFVFRNFKHASPAALAKSVLAEPNQVVDYNGKGIKPKCSSEMYESSRTLAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6154_h10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_130808

ORF Size: 1671 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_130808.2](#), [NP_570720.1](#)

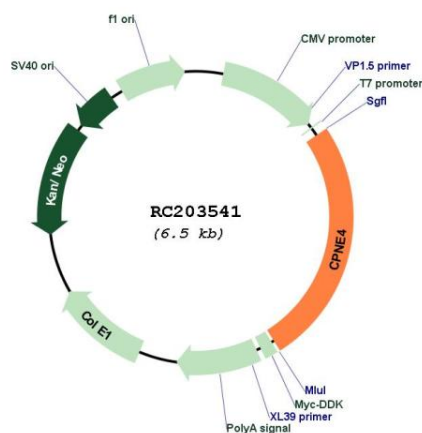
RefSeq Size: 4194 bp

RefSeq ORF: 1674 bp

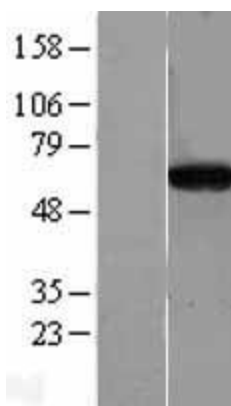
Locus ID: 131034

UniProt ID:	<u>Q96A23</u>
Cytogenetics:	3q22.1
Domains:	C2, VWA
Protein Families:	Druggable Genome
MW:	62.4 kDa
Gene Summary:	This gene belongs to the highly conserved copine family. It encodes a calcium-dependent, phospholipid-binding protein, which may be involved in membrane trafficking, mitogenesis and development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

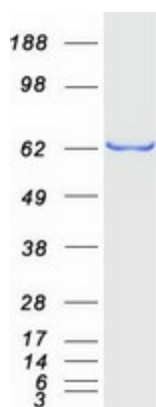
Product images:



Circular map for RC203541



Western blot validation of overexpression lysate (Cat# [LY403330]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203541 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CPNE4 protein (Cat# [TP303541]). The protein was produced from HEK293T cells transfected with CPNE4 cDNA clone (Cat# RC203541) using MegaTran 2.0 (Cat# [TT210002]).