

Product datasheet for **RC238952**

CPNE4 (NM_001289112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE4 (NM_001289112) 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)



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ORF Nucleotide Sequence:

>RC238952 representing NM_001289112
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCTGTAGAACCAGCAGCTCAGAATCCATTAAAAGGAGAGCTGGGAGGAGAATGAAGAAGATGAGCA
 ACATTTATGAGTCCGCTGCCAACACACTGGGAATCTTTAACAGCCCTGCCTGACCAAAGTTGAGCTGCG
 TGTGGCGTGCAAAGGCATTTCTGACAGAGATGCCCTTTCCAAACCAGACCCTGTGTCATCCTCAAGATG
 CAGTCTCATGGGCAGTGGTTTGAGGTTGACAGGACTGAGGTGATTCGCACCTGCATAAACCCAGTGTACT
 CAAAAGTGTACTGTGGACTTTTACTTTGAGGAGGTGCAGCGCCTGCGGTTTGAAGTCCATGACATCAG
 CAGCAACCACAATGGGCTGAAGGAGGCCGACTTCCTTGGTGGCATGGAGTGCACACTTGGCCAGATTGTT
 TCCCAGAGAAAGCTGTCCAAATCCTTGCTGAAGCATGGGAACACAGCAGGAAATCTTCATCACGGTGA
 TTGCTGAAGAATTATCTGGCAATGACGACTATGTTGAGCTTGCAATCAATGCACGAAATTTGGATGACAA
 GGATTTCTTCAGTAAATCTGACCCATTTCTGAAATTTTTCGTATGAATGATGATGCAACTCAGCAGCTG
 GTGCACCGAACTGAGGTTGTGATGAATAACTTAAGCCAGCCTGGAAATCATTCAAAGTATCTGTAAT
 CTCTATGCAGCGGAGACCCAGACCGCCGGCTAAAGTGCATAGTATGGGACTGGGACTCCAATGGCAAGCA
 TGACTTCATTGGAGAATTCACCTCGACATTCAAGGAGATGAGAGGAGCAATGGAAGGAAACAGGTGCAG
 TGGGAGTGCATCAATCCCAAGTACAAAGCCAAGAAGAAGTACAAGAACTCAGGCACTGTGATTCTGA
 ATCTGTGCAAGATTCACAAGATGCATCTTTCTTGACTACATCATGGGTGGCTGCCAAATCCAGTTTAC
 AGTAGCTATAGATTTCACTGCCTCAAACGGGGACCCAGGAACAGCTGTTCTTGCACTACATCCACCCT
 TACCAACCCAATGAGTATCTGAAAGCTTTGGTAGCTGTGGGGAGATTTGCCAAGACTATGACAGTGACA
 AAATGTTCCCTGCCTTTGGGTTTGGCGCCAGGATACCTCCAGAGTACACGGTCTCTCATGACTTTGCAAT
 CAACTTTAATGAAGACAACCCAGAATGTGCAGGAATTCAGGAGTTGTGGAAGCCTATCAGAGCTGTCTT
 CCTAAGCTCCAACCTCTACGGTCCACCAACATTGCCCCATCATCCAGAAGTTGCCAAGTCAGCGTCAG
 AGGAAACTAACACCAAGGAGGCATCGAATACTTCATCCTGCTGATCCTGACAGATGGTGTATCACAGA
 CATGGCCGACACCCGGGAGGCCATTGTCCATGCCTCCACCTCCCATGTGAGTCATCATCGTGGGAGTA
 GGGAAACGCTGACTTCAGTGACATGCAGATGCTGGACGGTATGATGGGATTCTGAGGTCACCAAGGGAG
 AGCCTGTTCTTCGAGACATCGTCCAGTTCGTGCCCTTCAGGAACCTCAAACACGCATCTCCAGCTGCCCT
 GGCAAAGAGCGTGTGGCTGAAGTCCAAACCAAGTTGTGGACTATTACAATGGCAAAGGAATTAACCA
 AAATGTTTCATCAGAAATGTATGAATCTCCAGAACACTAGCACCA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238952 representing NM_001289112
 Red=Cloning site Green=Tags(s)

MAVEPSSSESIKRRAGRMRMKMSNIYESAANTLGIFNSPCLTKVELRVACKGISDRDALSKPDPVILKM
 QSHGQWFEVDREVTVCINPVYSKLFYVDFYFEEVQRLRFEVHDISSNHNLKEADFLGMECTLGQIV
 SQRKLSKLLKHGNTAGKSSITVIAEELSGNDYVELAFNARKLDDKDFFSKSDPFLEIFRMNDATQQL
 VHRTEVVMNLSPAWKSFKVSVNSLCSGDPDRRLKCIWWDWSNGKHDFIGEFTSTFKEMRGAMEGKQVQ
 WECINPKYKAKKKNYKNSGTVILNLCKIHKMHSFLDYIMGGCQIQFTVAIDFTASNGDPRNSCSLHYIHP
 YQPNEYLKALVAVGEICQDYDSKMFPAFGGARIPPEYTVSHDFAINFNEDNPECAGIQGVVEAYQSCL
 PKLQLYGPNTIAPIIQKVAKSASEETNTKEASQYFILLILTDGVIDTMDTREATIVHASHLPMSVIVGV
 GNADFSDMQMLDGGDILRSPKGEPLRDIVQFVFRNFKHASPAALAKSVLAEPNQVVDYNGKGIKP
 KCSSEMYESSRTLAP

TRTRPLE**QKLISEEDLA**AND**ILDYKDDDDKV**

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001289112

ORF Size: 1725 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_001289112.1](#), [NP_001276041.1](#)

RefSeq Size: 3566 bp

RefSeq ORF: 1728 bp

Locus ID: 131034

UniProt ID: [Q96A23](#)

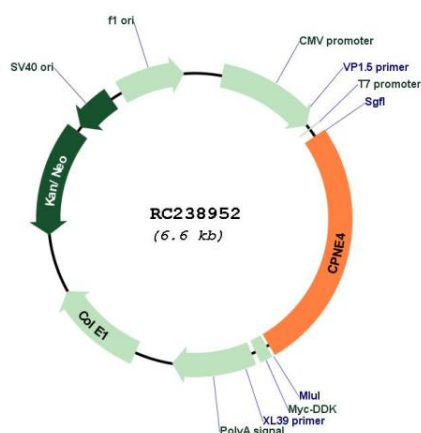
Cytogenetics: 3q22.1

Protein Families: Druggable Genome

MW: 64.8 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 RC238952