

Product datasheet for **RC238953**

CPNE4 (NM_153429) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE4 (NM_153429) 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:

>RC238953 representing NM_153429
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCTGTAGAACCAGCAGCTCAGAATCCATTAAAAGGAGAGCTGGGAGGAGAATGAAGAAGATGAGCA
 ACATTTATGAGTCCGCTGCCAACACACTGGGAATCTTTAACAGCCCTGCCTGACCAAAGTTGAGCTGCG
 TGTGGCGTGCAAAGGCATTTCTGACAGAGATGCCCTTTCCAAACCAGACCCTGTGTCTCATCTCAAGATG
 CAGTCTCATGGGCAGTGGTTTGAGGTTGACAGGACTGAGGTGATTCGCACCTGCATAAACCCAGTGTACT
 CAAAAGTGTCTGAGGACTTTTACTTTGAGGAGGTGCAGCGCCTGCGGTTTGAAGTCCATGACATCAG
 CAGCAACCACAATGGGCTGAAGGAGGCCGACTTCTTGGTGGCATGGAGTGCACACTGGCCAGATTGTT
 TCCCAGAGAAAGCTGTCCAAATCCTTGCTGAAGCATGGGAACACAGCAGGAAATCTTCCATCACGGTGA
 TTGCTGAAGAATTATCTGGCAATGACGACTATGTTGAGCTTGATTCAATGCACGGAAATTTGGATGACAA
 GGATTTCTTCAGTAAATCTGACCCATTTCTGAAATTTTTCTGATGAATGATGATGCAACTCAGCAGCTG
 GTGCACCGAACTGAGGTTGTGATGAATAACTTAAGCCAGCCTGGAAATCATTCAAAGTATCTGTAAT
 CTCTATGCAGCGGAGACCCAGACCGCGGCTAAAGTGCATAGTATGGGACTGGGACTCCAATGGCAAGCA
 TGACTTCATTGGAGAATTCACCTCGACATTCAAGGAGATGAGAGGAGCAATGGAAGGAAACAGGTGCAG
 TGGGAGTGCATCAATCCCAAGTACAAAGCCAAGAAGAAGTACAAGAACTCAGGCACTGTGATTCTGA
 ATCTGTGCAAGATTCACAAGATGCATCTTTCTTGACTACATCATGGGTGGCTGCCAAATCCAGTTTAC
 AGTAGCTATAGATTTCACTGCCTCAAACGGGGACCCAGGAACAGCTGTTCTTGCACTACATCCACCCT
 TACCAACCAATGAGTATCTGAAAGCTTTGGTAGCTGTGGGGAGATTTGCCAAGACTATGACAGTGACA
 AAATGTTCCCTGCCTTTGGGTTTGGCGCCAGGATACCTCCAGAGTACACGGTCTCTCATGACTTTGCAAT
 CAACTTTAATGAAGACAACCCAGAATGTGCAGGAATTCAGGAGTTGTGGAAGCCTATCAGAGCTGTCTT
 CCTAAGCTCCAACCTCTACGGTCCACCAACATTGCCCCATCATCCAGAAGTTGCCAAGTCAGCGTCAG
 AGGAACTAACACCAAGGAGGCATCGAATACTTCATCCTGCTGATCCTGACAGATGGTGTATCACAGA
 CATGGCCGACACCCGGGAGGCCATTGTCCATGCCTCCACCTCCCATGTGAGTCATCATCGTGGGAGTA
 GGGAACGCTGACTTCAGTGACATGCAGATGCTGGACGGTATGATGGGATTCTGAGGTACCCCAAGGGAG
 AGCCTGTTCTTCGAGACATCGTCCAGTTCGTGCCCTTCAGGAACCTCAAACACGCATCTCCAGCTGCCCT
 GGCAAAGAGCGTGTGGCTGAAGTCCAAACCAAGTTGTGGACTATTACAATGGCAAAGGAATTAACCA
 AAATGTTTCATCAGAAATGTATGAATCTCCAGAACACTAGCACCA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238953 representing NM_153429
 Red=Cloning site Green=Tags(s)

MAVEPSSSESIKRRAGRMRMKMSNIYESAANTLGIFNSPCLTKVELRVACKGISDRDALSKPDPVILKM
 QSHGQWFEVDRTEVIRTINPVYSKLFYVDFYFEEVQRLRFEVHDISSNHNLKEADFLGMECTLGQIV
 SQRKLSKLLKHGNTAGKSSITVIAEELSGNDYVELAFNARKLDDKDFFSKSDPFLEIFRMNDATQQL
 VHRTEVVMNLSPAWKSFKVSVNSLCSGDPDRRLKCIWWDWSNGKHDFIGEFTSTFKEMRGAMEGKQVQ
 WECINPKYKAKKKNYKNSGTVILNLCKIHKMHSFLDYIMGGCQIQFTVAIDFTASNGDPRNSCSLHYIHP
 YQPNEYLKALVAVGEICQDYDSKMFPAFGGARIPPEYTVSHDFAINFNEDNPECAGIQGVVEAYQSCL
 PKLQLYGPNTIAPIIQKVAKSASEETNTKEASQYFILLILTDGVIITDMADTREATIVHASHLPMSVIVGV
 GNADFSDMQMLDGGDILRSPKGEPLRDIVQFVFRNFKHASPAALAKSVLAEPVNPQVVDYNGKGIKP
 KCSSEMYESSRTLAP

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_153429

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_153429.1](#), [NP_702907.1](#)

RefSeq Size: 3554 bp

RefSeq ORF: 1728 bp

Locus ID: 131034

UniProt ID: [Q96A23](#)

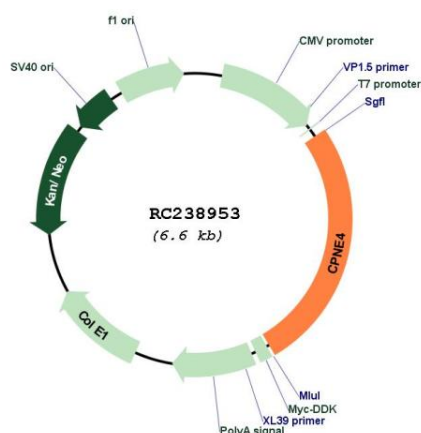
Cytogenetics: 3q22.1

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 RC238953